Notebook, N-Undated.16

00·00-00.16

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NEWARK, N.J.

Note

Endurance cells selected from Work book #1 follows after endurance cells group #4909-07

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4421	93-103-103	102-107	105-106	
20	88-100-100	97-102	100-102	
19	92-100-103	101-105	103-102	

Section I

4421 }
4420 } Group 5 Ni Reversed Perfs Chgd in 33%
4419 } -150 fabs 15 H. against CP Ni strips 100 rate
Then in 21% + chg 15 h 200 dis 100 use new irons
Cathoded -

4421	615	479	537	460	530	542	530	531	538
20	620	474	513	457	533	537	520	526	532
19	612	467	529	453	529	532	521	523	530

Endurance

	62	64	65	116	117	168	169	220	221
4421	530	522	518	538	500	467	453	410	407
20	533	508	515	525	488	465	455	417	408
19	533	512	517	527	493	460	453	410	402

	272	273	324	325	476	477	578	579		680
4421	386	361	322	319	180	169	127	142	Fresh 21% [illegible]	164
20	395	377	340	324	222	213	163	187		143
19	390	367	345	340	183	171	120	137		100

	681									
4421	100									
20	102									
19	95									

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4426	92-102-103	100-104	101-103	
25	92-101-103	100-104	105-104	
24	92-101-103	99-105	103-103	

Section I

4426 Group 5 Ni. Revsd perfs chgd 21%
4425 15 h 100 rate Temp 150.7. Then chg 21%
4424 Cold 15 h dischg 100 use new cathoded irons

	1	2	3	4	5	6	7	8	9
4426	583	461	526	442	518	522	517	517	520
25	578	443	520	440	518	523	504	517	517
24	587	460	530	455	527	532	521	518	523

Endurance

	61	63	64	116	117	168	169	220	221
4426	530	500	483	517	483	465	452	432	412
25	543	504	500	522	487	467	452	400	400
24	543	512	497	533	498	477	457	432	412

	272	273	324	325	476	477	578	579		680
4426	412	393	382	377	241	217	215	212	Break 21% KOH put in	190
25	393	375	342	343	217	200	217	217		182
24	407	383	351	357	217	200	163	167		103

	681
4426	197
25	190
24	117

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4461.	87-98-99	103-103	105-104	
59	91-100-104	106-103	109-102	
58.	88-100-99	105-105	109-105	

Section I

4461 | 4459 | 4458 | 5 Rzq Ni Chgd 15 h 33% 150 Fals 100 rate KOH Containing 3 grammes of Metallic Aluminium then put in 21% + Chg 200 rate 15 h dis 100

4461	292	357	271	373	377	382	373	378
59	305	63	306	417	425	429	425	428
58	315	400	316	416	419	427	421	418

Endurance

	60	62	63	115	116	167	168	219	220
4461	377	367	367	355	333	300	303	233	242
59	SC	SC	432	448	430	370	363	347	S.C.
58	433	432	432	391	395	333	338	277	280

	271	272	323	324	475	476	577	578		679
4461	233	233	167	S.C.	94	83	73	95	Break in 10 Nov. 4th	72
59	340	337	273	288	163	145	123	133		103
58	272	274	233	208	123	110	87	107		90

	680									
4461	87									
59	118									
58	113									

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4465	94-99-101	92-98	96-97	—
64	91-95-104	100-108		
63	89-97-104	97-103		

Section I

4465 | 5 Ni put in 21% & chgd 200 rate 15 h
64 | dischg 100 KOH. Containing 3 grams
63 | Cyanide Potassium – Req nows to be charged
24 hours at 200 before putting in cell ~~with~~ Nickel,

4465	37	493	537	513	532	525	507	505	493
64	0	550	565	540	527	400	533	527	550.
63	33	508	545	518.	540	532	543	532	510

513	538	518	522	523	532
528	523	512	519	515	527.
528	545	532	530	SC	530

Endurance

	67	69	70	122	123	174	175	226	227
4465	567	533	540	563	540	518	520	487	497
64	578	540	533	556	528	517	508	486	SC
63	SC	600	555	572	548	517	523	498	493.

	278	279	330	331	482	483	584	585		686
4465	478	477	455	467	394	387	298	300	Made 21% KOH put in	223
64	487	SC	455	463	SC	374	348	SC		347
63	500	490	467	473	400	393	343	345		231

	687					
4465	237					
64	305					
63	278					

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4470	93-103-103	102-105	106-106	
69	92-101-104	100-108	105-103	
68	87-97-100	95-102	100-104	

Section I

4470
69
68

5 Ni put in 21% Chg 200 dis 100 15 h KOH Containing 3 grms Hyposulphite Soda Reg nons to 62 chgd 24 hours before putting in cell with Ni

4470	442	515	553	518	525	517	533	512	527	517	516	527	518
69	420	513	533	510	X	X	Sc	sc	sc	sc	sc	502	514
68	436	503	525	507	513	502	533	507	522	517	508	525	517

Endurance

	65	67	68	120	121	172	173	224	225
4470	582	533	528	547	523	520	500	478	467
69	533	523	523	553	523	515	500	490	475
68	565	533	523	553	S.C.	527	523	475	495

	276	277	328	329	480	481	582	583		684
4470	475	456	442	452	363	332	241	253	Fresh 21% KOH put in	267
69	490	472	465	475	412	393	338	350		322
68	456	487	407	452	327	307	223	230		243

	685					
4470	250					
69	307					
68	243					

Caliper

	Original	After 1st Run	Before Endurance	After Endurance
4482	90 - 99 - 101		103-104	
81	91 - 97 - 100		103-106	
80	88 - 100 - 102		102-102	

Section I

4482
81
80

5 Ni chgd 200 rate 15 hr dis 100 in 21% Which has been boiled with filter paper run to 62 chgd 24 hours before ni put with it.

4482	442	532	533	527	527	511	512	513	497	513	500
81	432	508	532	517	513	510	512	511	500	512	505
80	447	507	528	510	517	497	506	500	493	495	497

Endurance

	63	65	66	118	119	170	171	222	223
4482	565	533	527	558	522	S.C.	477	478	483
81	575	515	527	565	523	528	510	485	480
80	555	530	520	545	516	500	495	467	465

	274	275	326	327	478	479	580	581		682
4482	467	456	447	448	387	370	333	337	Break 2½% KOH add	237
81	489	467	457	467	389	371	347	357		354
80	465	452	439	448	377	355	324	333		193

	683
482	245
81	328
80	138

Caliper

	Original	After 1st Run	Before Endurance	After Endurance
4485	89-100-104		106-105	
84	90-100-103		109-106	
83	89-100-102		112-108	

Section I

4485 84 " 83	Dup of 4482 next page back Except KOH has in addition 2 grams freshly precip Mecuric Oxide put in -

4485	448	463	530	512	523	510	510	507	492	498	495
84	456	520	530	515	522	510	512	510	497	502	503
83	457	512	530	514	522	510	513	510	497	497	498

Endurance

	63	65	66	118	119	170	171	222	223
4485	567	533	525	557	522	515	500	475	467
84	573	530	502	568	527	525	510	498	497
83	567	535	523	597	515	500	492	462	464

	274	275	326	327	478	479	580	581	
4485	473	455	442	452	380	360	344	345	Fresh 21% KOH put in
84	500	476	467	480	412	392	370	390	
83	463	451	433	440	371	344	317	317	

	682	683							
4485	280	263							
84	346	325							
83	260	263							

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4523	90-95-102	97- 96	103-100	
22	92-102-104	98-100	102-103	
21	89-100-103	97-104	103-105	

		685	686
4523	[illegible]	284	277
22		205	200
21		300	272

Section I

4523	5 Ni Cups plated with Iron (thinly)
22	Chg 21% 15 h 200 dis 100
21	

	1	2	3	4	5	6	7	8	"
4523	500	508	494	488	495	487	485	470	481
22	500	506	495	490	493	487	483	487	475
21	495	506	495	490	492	488	486	487	477

475	488	x	482	484
467	488	483	484	484
467	488	483	483	484

Endurance

	65	67	68	121	122	173	174	225	226
4523	533	515	498	528	484	483	458	443	433
22	525	500	498	520	477	480	452	433	412
21	520	500	498	523	481	483	455	433	430

	277	278	329	330	481	482	583	584
4523	458	438	420	430	339	315	245	245
22	447	417	405	400	287	249	180	177
21	452	427	410	408	312	284	215	213

Caliper

	Original	After 1st. Run	Before Endurance	After Endurance
4526	90-101-103	98-103	102-104	
25	90-102-103	99-102	101-104	
24	89-102-102	97-103	103-104	

Section I

4526	Ni cups plated very Thin with Silver
25	21% Chg 15 h 200 dis 100
24	

4526	512	524	524	527	508	525	510	507	491	493	500
25	173	516	525	527	512	532	516	508	488	500	500
24	521	524	506	527	500	525	512	507	500	497	501

Endurance

	63	65	66	118	119	170	171	222	223
4526	533	515	500	500	500	493	492	465	460
25	575	527	522	552	510	510	492	477	467
24	545	527	497	548	507	505	492	475	463

	274	275	326	327	478	479	580	581		682
4526	453	437	430	433	354	337	302	310	Brake 21% 120# put in	222
25	472	450	447	440	354	329	287	290		238
24	467	452	447	447	380	359	345	345		264

	683									
4526	225									
25	233									
24	258									

Caliper

	Original	After 1st Run	Before Endurance	After Endurance
4531	95-101-105	100-107	105-109	—
30	91-102-103	98-103	105-106	
29	93-105-107	101-106	105-107	

Section I

4531
30
29

5 ni cups plated very thin with Cadmium 21% Chg 15h 200 dis 100

4531	507	508	514	527	512	532	517	511	487	498	500
30	510	506	525	518	509	528	517	503	490	500	501
29	507	508	525	531	518	533	513	517	500	510	512

Endurance

	63	65	66	118	119	170	171	222	223
4531	567	520	520	543	510	490	483	467	460
30	545	528	508	545	510	508	490	475	463
29	580	533	525	570	528	578	508	487	480

	274	275	326	327	478	479	580	581		682
4531	454	443	432	433	371	355	321	323	Trickle 2½% [illegible]	264
30	477	444	441	441	367	348	322	327		283
29	478	462	457	463	384	367	333	333		278

	683
4531	257
30	272
29	267

Caliper

	Original	After 1st. Run	Before Endurance	After Endurance
4536	89-102-102	97-104	103-104	—
35	88-100-104	96-102	103-102	
34	90-100-103	98-101	103-103	

Section I

4536 35 34	5 ni cups plated very thin with Copper. 21% Chg 15 h 200 dis 100

4536	490	508	510	522	502	520	517	503	489
35	499	505	512	522	502	513	516	503	490
34	497	505	513	520	502	515	516	504	488

516	495	500	500
518	493	498	501
517	490	494	500

Endurance

	65	67	68	120	121	172	173	224	225
4536	553	520	520	537	505	497	483	478	467
35	560	532	518	558	519	512	493	480	467
34	542	529	520	542	506	493	483	467	462

	276	277	328	329	480	481	582	583		684
4536	459	440	427	425	319	267	262	275	Trickle Chg. KOH Used	236
35	472	450	440	446	358	342	297	247		228
34	451	439	423	423	329	315	218	232		197

	685
4536	228
35	233
34	193

Caliper

	Original	After 1st Run	Before Endurance	After Endurance
4596	90-99-99	94-98	104-105	
95	91-101-103	100-110	110-106	
94	87-97-100	94-98	96-100	

Section I

4596 | 5 Reg Ni assembled with Fe pockets
95 | having no Mercury in the black mix
94 | Chg 15 h 200 dis 100 21% Chg Fe 15 h
200 rate before assembling with Ni

4596	488	493	471	490	490	489	497	493	480
95	480	486	474	500	496	500	510	500	475
94	497	473	476	493	492	497	500	487	475

4596	488	473	466	474
95	505	487	482	491
94	505	487	478	486

Endurance

	65	67	64	120	121	172	173	224	225
4596	542	500	500	537	483	492	458	452	433
95	558	530	532	553	504	492	477	471	454
94	550	517	500	547	493	490	467	462	439

	276	277	328	329	480	481	582	583		684
4596	432	406	380	372	300	300	165	167	Fresh 27% KOH put in	167
95	455	432	407	397	283	267	167	178		220
94	462	418	397	379	309	298	207	200		185

	685									
4596	170									
95	214									
94	197									

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4.603	91-102-102	97-103	101-104	
.02	86-99-101	93-100	98-100	
.01	90-99-102	98-100	100-101	

Section I

4603 02 01	5 Ni Chgd 33% 150 Fahr 100 rate 15 h assembled black iron No Mercury which been previously charged 15 h 200 rate

Then rechg 15 h 200 dis 100 21%

4603	553	480	497	488	465	466	452	455	467	450	453	455
02	650	575	561	550	555	533	540	537	533	535	540	545
01	651	580	565	543	547	529	528	530	525	530	532	533

Endurance

	65	67	68	119	120	171	172	223	224
4603	488	450	434	486	467	492	467	465	461
02	617	543	532	553	532	547	572	506	488
01	565	543	522	498	525	527	507	498	492

	275	276	327	328	479	480	581	582		683
4603	473	448	425	417	409	382	333	297	[illegible] 21% [illegible]	283
02	490	456	433	424	410	389	375	362		313
01	487	463	432	433	400	377	330	299		248

	684
4603	263
02	316
01	256

Calipers

	Original	After 1st Run	Before Endurance
4627	90-103-104	98-104	105-104
26	90-102-103	101-104	104-105
25	95-105-112	101-106	104-111

Section I

4627	5 Ni Reg Fe, run in 5% KOH, 15%
26	Carbonate Potash,
25	Chg 15 h 200 dis 100

4627	475	497	392	400	412	415	387	396	333	365	383	387	380	382
26	477	498	430	437	449	450	425	442	442	465	450	444	450	425
24	472	498	373	380	398	400	378	395	392	367	392	390	395	398

Endurance

	67	69	70	121	122	173	174	225	226
4627	328	352	323	232	233	220	237	176	177
26	417	433	408	300	325	292	313	228	233
24	357	380	352	267	263	282	288	217	212

	277	278	329	330	481	482	583	584		685
4627	113	123	91	91	45	43	62	60	Put in 21% KOH put in	60
26	133	130	88	84	47	42	0	3		25
24	167	167	120	122	55	52	40	40		43

	686
4627	68
26	37
24	43

Calipers

	Original	After 1st Run	Before Endurance
4633	93-104-105	101-105	109-108
32	89-101-103	99-105	107-108
31	91-101-102	100-105	104-105

Section I

4633
32
31

5 ni. Req. Fe run in 10% KOH, 10% Carbonate Potash.
Chg 15 h 200 dis 100

4633	478	502	483	490	493	502	492	500	498	488	500	495	467	497
32	479	484	481	484	512	497	485	489	487	470	495	487	473	475
31	475	497	482	488	493	487	485	495	487	465	492	487	467	472

Endurance

	67	69	70	121	122	173	174	225	226
4633	545	504	500	500	500	520	500	500	483
32	533	510	493	508	487	497	477	478	467
31	532	515	493	518	498	520	487	497	480

	277	278	329	330	481	482	583	584		685
4633	492	453	427	421	309	300	143	140	Fresh 21% KOH put in	90
32	463	442	400	S.C.	190	174	67	63		49
31	482	457	427	427	216	292	88	83		35

	686									
4633	110									
32	67									
31	50									

Calipers

	Original	After 1st Run	Before Endurance	After Endurance
4638	91-103-103	104-108	109 -109	
36	92-101-102	101-107	110- 109	
34	98-102-106	99-102	107 -110	

Section I

4638 | 5 ~~Ni~~ Reg Fe run in 15% KOH, 5% Carbonate
36 | ~~KOH~~ Potash – Chg 15 h 200 dis 100
34 |

4638	515	507	500	519	513	521	527	510	535	518	513	520	502
36	457	493	488	506	490	507	513	500	522	493	497	500	490
34	478	503	497	512	507	515	527	511	533	519	512	512	505

Endurance

	66	68	69	120	121	172	173	224	225
4638	554	500	493	467	467	467	458	433	425
36	550	487	478	458	457	444	424	387	387
34	565	509	500	482	498	475	461	438	431

	276	277	328	329	480	481	582	583		684
4638	417	403	355	367	345	320	312	300	Made 2 10% KOH put in	253
36	377	366	292	293	267	253	192	185		105
34	420	407	341	362	346	325	283	272		260

	685
4638	267
36	125
34	267

Calipers

	Original	After 1st Run	Before Endurance
4664	90-99-103	105-101	107-105
61	91-101-102	102-103	101-103
60	91-98-101	100-101	104-104

Section F

4664
61
60

5 Ni Reg mix dipped 3 minutes in our Sulphate Nickel Solution, dried on plate Then put soak 120 hours in 33% down stairs in bottle Then assemble + put in 21% Chg 15 h 200 dis 100

4664	442	493	524	518	521	525	526	507	512	515
61	445	497	521	527	529	529	524	507	508	512
60	440	498	523	527	515	522	522	510	576	517

Endurance

	63	65	66	117	118	169	170	221	222
4664	567	533	500	533	523	533	493	481	470
61	560	542	526	510	530	541	508	500	482
60	538	527	510	467	523	527	500	500	482

	273	274	325	326	477	478	579	580		681
4664	467	438	406	393	329	284	210	200	Fresh 21% KOH put in	198
61	483	444	417	407	343	313	233	223		173
60	486	459	431	421	343	320	233	225		162

	682									
4664	200									
61	185									
60	171									

Calipers

	Original	After 1 1st Run	Before Endurance
4668	92-100-104		
67	93-103-106		
66	89-100-101		
65	93-104-104		

Section I

4668 67 66 65	5 N with Hg in bottom saturated Zinc 1/16 thick. Chg 200 15 h dis 100 2½ ..

4668	470	522	500	500	497	475	492	503
67	471	513	495	492	490	467	473	495
66	467	508	490	493	497	467	488	500
65	428	518	471	493	473	488	465	503

Endurance

	61	63	64	115	116	167	168	219	220
4668		452	460	367	442	408	434	405	432
67	493	452	445	368	433	377	401	313	310
66	505	483	515	407	467	415	438	373	388
65	498	498	463	400	450	400	428	395	409

	271	272	323	324	474	475	576	577*		
4668	393	412	123	263	0	28	2	10	Put	in
67	242	205	S.C.	0	0	0	6	3	new	wires
66	297	233	121	108	76	65	32	47	+ fresh	[illegible]
65	372	380	233	233	67	65	17	16	RON.	

	678	679	680	681	682	683				
4668	113	S.C.	262	330	207	255				
67	83	112	130	263	213	258				
66	15	93	227	323	238	325				
65	38	123	197	310	208	263				

Calipers

	Big Callipers Original	after 1st Run	Before Endurance
4682	90-100-101		104 - 101
81	92-100-103		101 - 104
80	92-102-103		100 - 104

Section I

4682 | 5 m. Reg mix dipped 3 minutes in
81 | Ammonia solution containing Chloride
80 | Ammonia in which Ni hydroxide is
dissolved - dried on plate soaked
156 hours in 33% down stairs 21%
assembled reg Fe Chg 15h. 200 dis. 100

–	1	2	3	4	5	6	7	8	9	10
4682	470	500	513	548	565	547	530	537		
81	487	508	519	552	533	548	532	540		
80	466	500	513	540	540	542	530	538		

Endurance

	63	65	66	117	118	169	170	221	222
4682	598	547	532	542	530	540	512	500	488
81	603	548	533	555	533	538	513	500	494
80	593	547	533	553	532	543	520	510	497

	273	274	325	326	477	478	579	580		681
682	481	460	433	423	397	369	333	320	Fresh 21% KOH put in	278
81	484	465	433	432	389	362	293	263		252
80	494	474	447	447	428	400	373	367		323

	682											
4682	267											
81	237											
80	327											

Calipers

	Original	After 1st Run	Before Endurance
4700	91-101-101	99-102	102-104
4699	90-102-100	98-103	101-105
98	92-101-102	101-105	104-106

Section I

4700 | 5 Reg Ni 10 old irons Chg The 5 Ni in
4699 | 33% as anode & 10 irons as Cathode
98 | 15 h 100 rate 150 Fahr both in same
dish Then assemble in Cells 21%
Chg 15 h 200 dis 100

4700	547	540	528	530	537	516	517	517
4699	576	543	532	520	532	512	512	505
98	565	527	527	523	530	508	513	485

Endurance

	61	63	64	115	116	167	168	219	220
4700	567	508	492	508	477	520	471	467	442
4699	542	573	499	522	500	540	495	482	477
98	558	512	498	518	500	524	500	487	482

	271	272	323	324	475	476	577	578		679
4700	471	432	417	404	396	355	332	295	Fresh 21% KOH put in	266
4699	471	449	417	412	396	357	333	317		262
98	479	454	419	412	397	357	343	318		270

	680									
4700	255									
4699	248									
98	233									

Calipers

	Original	After 1st Run	Before Endurance	After
4724	99-99-102	95-100	101-104	
23	92-103-103	100-104	103-106	
22½	91-101-103	99-104	99-100	

Section I

4724 | 5 Ni Reversed 150 Fahr 5% KOH.
23 | 15 h 100 rate assemble with reg ions
22½ | Chg 15 h 200 dis 100 21%

	1	2	3	4	5			
4724	486	497	219	517	508			
23	483	497	212	509	499			
22½	484	495	217	515	505			

Endurance

	58	60	61	112	113	164	165	216	217
4724	548	520	511	533	478	528	497	495	481
23	533	523	511	508	513	537	503	492	486
22½	SC	517	SC	510	487	512	471	455	444

	268	269	320	321	472	473	574	575		676
4724	479	456	433	430	413	378	348	330	3 weeks 21 days 120°F April [illegible]	278
23	480	457	433	433	400	373	350	348		287
22½	445	422	391	380	367	331	322	293		252

	677									
4724	280									
23	293									
22½	233									

Calipers

	Original	After 1st Run	Before Endurance	after Endurance
4734	87-101-100	95-101	100-103	
33	87-100-101	94-102	97-103	
32	90-102-102	99-103	100-103	

Section I

4734
33
32

5. ni Reversed perforations chgd in 5% KOH. 150 Fahr 100 rate, 30 hours; then assembled reg vous a chg 15 h 200 dis 100

	1	2	3	4	5	6
4734	622	538	518	511	530	513
33	618	SC	540	512	528	511
32	619	538	523	513	530	515

Endurance

	59	61	62	113	114	165	166	217	218
4734	540	492	479	485	467	475	446	437	425
33	550	507	492	488	478	485	457	437	430
32	577	514	499	500	483	497	463	444	433

	269	270	321	322	473	474	575	576		677
4734	422	393	363	353	300	283	233	220	Fresh 21% KOH put in	225
33	422	397	364	358	323	295	243	233		222
32	423	400	371	362	328	300	227	225		208

	678
4734	212
33	212
32	207

Calipers

	Original	1st Run	Endurance Before	Endurance After
4767	87-101-101	95-101	100-103	
66	90-100-103	97-103	102-105	
65	89-100-101	96-100	100-102	

Section I

4767
66
65
5 ni 21% made from stick KOH by Alcohol. Chg 15h200 dis 100

	1	2	3	4	5	6	7	8	9	10
4767.	497	492	506	513	490	515	515	488	498	487
66	506	507	512	521	512	513	522	490	500	500
65	505	507	512	522	502	515	517	493	501	500

Endurance

	63	65	66	117	118	169	170	221	222
4767	540	517	507	522	507	518	496	484	477
66	587	533	511	533	523	537	507	499	488
65	577	528	511	508	527	528	500	492	480

	273	274	325	326	477	478	579	580		681
4767	476	452	423	416	383	375	292	253	Fresh 21% KOH put in	233
66	488	461	432	416	381	355	298	267		257
65	484	450	424	415	375	355	267	240		265

	652
4767	230
66	241
65	214

Calipers

	Original	after 1st Run	Before Endurance	after Endurance
4777	91-107-104	101-103	103-104	
76	93-107-104	102-105	104-105	
75	93-105-103	101-105	105-106	

Section I

4777 5 mi. Reversed perf. inside of cups
76 Cleaned with Emery paper —
75

	1	2	3	4	5
4777	499	507	517	510	515
76	496	506	513	510	512
75	501	507	517	512	515

Endurance

	58	60	61	112	113	164	165	216	217
4777	553	497	498	507	492	518	479	450	449
76	557	492	490	510	495	578	484	455	452
75	553	505	498	507	492	510	484	457	451

	268	269	320	321	472	473	574	575		676
4777	442	419	371	367	327	300	252	330	Fresh 21.0% 1807 [illegible]	233
76	446	425	378	378	331	312	267	250		230
75	441	418	363	361	312	283	253	233		239

	677									
4777	215									
76	213									
75	220									

Calipers

	Original	After 1st Run	Before Endurance	424th run
4804	96-109-107	103-106	111-112	117-113
03	95-106-106	99-105	108-108	115-114
02	95-106-106	104-108	113-110	118-115

Section II

4804
03
02

5 ni 21% which has been heated 130 Fah. 10 hours with 1/2 its bulk of shavings from a side guide rubber from E18 cell.
~~[illegible]~~ Keep KOH from Carbonating by using a bottle + let it rest on Asbestos on hot plate downstairs need about 800 cc of 21%
Chg 15 h 200 dis 100 —

4804	492	497	500	478	489	489
03	500	504	510	492	497	496
02	492	497	500	486	489	489

Endurance

	59	60	111	112	163	164	215	216
4804	500	511	522	497	483	457	445	422
03	506	517	521	500	488	467	449	433
02	496	507	512	494	482	455	447	427

	267	268	319	320	371	372	423	424	525	526
4804	395	392	344	317	267	255	200	208	200	133
03	400	400	355	333	282	267	233	247	300	250
02	400	400	357	320	296	293	242	250	237	210

		627	628
4804	Break 21% KOH put in	95	153
03		167	223
02		158	195

Calipers

	Original	After 1st Run	Before Endurance	424th run
4809	92-106-107	98-106	107-109	114-110
08	97-107-109	110-109	105-108	123-117
07	95-106-104	100-104	107-112	118-114

Section II

(800 cc 21%)

4809
08
07
5 m put in solution in which 10 Rubber pack rings, soft, from E 18 heat on hot plate down stairs the whole being in a Closed bottle, glass stopper, 15 hours
Use This Solution in Little Cells –
Chg 15 h 200 dis 100

4809	501	503	508	482	492	488
08	492	497	500	477	481	482
07	504	507	510	487	496	492

Endurance

	59	60	111	112	163	164	215	216
4809	503	511	512	491	476	450	429	405
08	498	500	505	485	467	446	426	405
07	506	517	533	512	500	479	462	444

	267	268	319	320	371	372	423	424	525	226
4809	381	377	345	325	275	260	225	233	215	197
08	382	377	333	325	275	260	213	232	215	183
07	417	420	387	372	325	288	225	257	167	183

		627	628							
4809	Fresh 21% KOH put in	180	227							
08		193	228							
07		181	226							

Calipers

	Original	After 1st Run	Before Endurance
4816	92-106-104	101-106	104-106
14	93-102-101	103-102	104-106
12	92-102-104	105-106	112-108

Section II

4816	5 ni 1 gram precip'td Magnesium hydroxide
14	in Each cell – 21% Chg 15 h 200 dis 100
12	

4816	512	507	543	533	526	512
14	510	500	535	523	512	503
12	493	493	503	525	512	505

Endurance.

	59	60	111	112	163	164	215	216
4816	498	507	508	487	482	457	425	394
14	506	517	539	514	517	492	482	462
12	500	508	512	491	477	452	433	412

	267	268	319	320	371	372	423	424	525	526
4816	367	365	267	246	210	245	215	233	160	187
14	438	446	405	388	330	312	252	265	213	200
12	387	390	333	306	257	247	216	232	158	167

		627	628							
4816	Bottle drop H_2O put in	163	223							
14		281	287							
12		182	222							

Calipers

Big Callipers	Original	After 1st Run	Before Endurance
4840	102-111-115	113-113	112-114
39	100-111-113	105-107	115-113
38	97-108-110	112-114	118-116

§ Section II

4840
39
38

5 Ni to be charged 15 h 200 rate given to Edison after chg. He will put them in large quantity water until every Trace Potash comes out. Then they are to be put back in 21% & charged again 15 hours 200 rate & dis 100

4840	528	555	563	570	478	566	554
39	530	555	563	573	559	567	565
38	525	556	563	567	553	562	552

Endurance

	60	61	112	113	164	165	216	217
4840	561	570	589	558	556	522	507	477
39	560	567	571	550	550	521	499	473
38	558	563	565	542	550	497	462	439

	268	269	320	321	372	373	424	425	526	527
1840	442	446	383	371	333	315	288	280	230	250
39	442	447	395	386	363	358	333	312	212	220
38	414	400	319	300	300	289	254	245	148	163

CO

		628	629							
1840	Break 21% 20% put in	250	283							
39		247	256							
38		160	225							

Calipers

	Original	After 1st Run	Before Endurance
4850	94-107-107	105-109	106-109
49	95-107-108	104-109	107-107
48	93-107-107	104-108	106-108

Section II

4850 49 48	5 Ni reversed perfo sent to Phono Wks - plated heavier. Chg 15 h 200 dis 100

4850	505	512	533	532	518	517	532
49	511	512	533	533	517	507	530
48	505	512	452	533	535	523	533

Endurance

	60	61	112	113	164	165	216	217
4850	514	519	533	511	494	475	457	445
49	512	519	532	507	496	476	467	452
48	513	517	533	510	500	475	466	447

	268	269	320	321	372	373	424	425	526	527
4850	416	421	362	365	357	352	345	330	312	310
49	424	428	380	375	363	361	353	330	230	220
48	424	427	380	383	370	367	367	370	267	267

		628	629							
4850	Fresh 2101 ROH put in	191	208							
49		192	212							
48		267	283							

Calipers

	Original	After 1st Run	Before Endurance
4855½	91-105-104	100-105	104-106
55	94-109-105	98-103	110-109
54	93-104-104	97-103	103-105

Section II

4855½ 5 Ni Reversd Perfs run in 21% Sol 800 CC in
55 Bottle put on hot plate 24 hours
54 Containing 1/3 its bulk of separators
from Glen Ridge which are ready to go into
Cells or taken from an old E18 over here,
break up in 1/8 & 1/16, long pieces (Moulded)
then fill little Cells from this solution,

4855½	493	497	503	497	510	500	
55	492	497	503	492	511	500	
54	493	498	508	500	513	517	

Endurance

	59	60	111	112	163	164	215	216
4855½	527	525	522	506	494	474	457	439
55	509	507	522	498	486	461	446	426
54	522	520	543	517	509	475	464	440

	267	268	319	320	371	372	423	424	525	526
4855½	419	422	355	354	359	348	312	275	333	200
55	403	407	339	333	328	311	283	263	300	232
54	416	419	362	364	360	348	320	292	313	275

		627	628
4855½	Bottle 21% 20% put in	190	220
55		208	230
54		210	242

Calipers

	Original	After 1st Run	Before Endurance
4859	97-106-105	102-108	105-107
58	93-103-106	100-105	106-108
57	92-105-106	101-105	105-107

Section II

4859 58 57	Dup of 4855½ Except the 800 cc of 21% has 1/3 its bulk of new separators Cut from sheet.

4859	500	495	503	517	517	513
58	498	495	503	531	517	507
57	498	498	507	483	578	510

Endurance

	59	60	111	112	163	164	215	216
4859	505	512	518	498	496	472	457	442
58	498	504	500	481	476	447	424	400
57	500	510	512	493	486	461	439	418

	267	268	319	320	371	372	423	424	525	526
4859	413	418	367	343	310	300	262	250	225	227
58	377	377	300	285	277	264	220	227	225	228
57	398	400	333	325	294	291	250	240	193	202

		627	628							
4859	Broke 2 lids [illegible]	200	242							
58		162	192							
57		167	215							

Calipers

	Original	After 1st Run	Before Endurance
4864	97-104-105	105-106	109-108
63	93-105-105	98-103	105-104
62	98-108-109	105-109	106-108

Section II

4864
63
62

5 N.J. Reversed perf dup 4855½ Except, 800cc 21% has 1/3 bulk of fine shavings from the thin sheet rubber on sides of E 18 – Chg 15 h. 200 dis 100

4864	492	500	513	550	532	528
63	493	485	498	537	515	512
62	500	493	503	533	517	514

Endurance

	59	60	111	112	163	164	215	216
4864	520	532	550	525	537	504	507	485
63	505	512	524	497	488	459	444	418
62	500	508	513	492	487	459	440	419

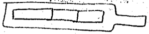
	267	268	319	320	371	372	423	424	525	526
4864	459	466	423	421	423	415	387	345	260	245
63	394	393	333	329	322	292	262	250	248	242
62	392	392	319	319	300	267	265	257	227	260

		627	628							
4864	Ends made 2050 [illegible]	252	258							
63		178	230							
62		160	210							

Calipers

	Original	After 1st Run	Before Endurance
4878	93-104-106	104-108	106-108
77	95-106-108	104-105	108-106
76	93-107-106	103-107	107-107

Section II



4878	5 [illegible] made up 3 sections, use reversed [illegible]
77	use 1070 milgrms in each section.
76	21% chg 15 h 200 dis 100

4878	500	503	505	504	512	488	526	500	507	495
77	508	518	517	515	522	498	538	509	523	505
76	508	518	520	517	523	498	536	507	523	500

Endurance

	59	60	115	116	167	168	219	220
4878	489	497	496	477	467	441	422	400
77	497	505	504	492	477	461	443	429
76	497	505	507	487	467	445	428	409

	271	272	323	324	375	376	427	428	529	530
4878	382	377	319	320	300	292	263	247	198	165
77	407	411	353	352	347	333	303	267	258	228
76	391	396	337	330	[illegible]	300	277	258	235	229

		631	632							
878	[illegible]	122	157							
77		183	218							
76		143	177							

Calipers

	Original	After 1st Run	Before Endurance
4885	93-101-103	101-106	107-105
84	90-102-102	100-103	105-106
82	93-101-105	100-104	106-102

Note. Curve is very bad. Drops to low voltage like cyanide curve. - W.E.H.

Section II

4885 84 82	5 Ni Reversed Posts - 2 grms gelatin dis in 21% KOH, in each cell. Chg 15 h 200 dis 100

4885	433	498	502	300	367	453	510
84	433	490	425	300	400	454	500
82	417	490	460	425	433	467	500

Endurance

	60	61	112	113	164	165	216	217
4885	517	506	400	400	550	539	522	509
84	511	506	333	433	544	531	507	494
82	527	524	341	400	553	531	505	486

	268	269	320	321	372	373	424	425	526	527
4886	482	487	387	380	253	247	143	132	112	97
84	471	474	383	367	233	223	143	133	80	83
82 ✓	461	462	342	333	228	207	117	122	110	122

		628	629							
4885	[illegible]	72	108							
84		113	162							
82 ✓		117	145							

Calipers

	Original	After 1st Run	Before Endurance
4900	95-104-103	93-102	106-103
4898	89- 98-99	99-106	101-99
96	83-96-99	97-94	95-97

Section II

4900 4898 4896	5 N_1 Reg put in old C Cups 1250 holes 21% chg 15 h 200 dis 100 — not rev perf

4900	478	473	483	480
4898	477	485	488	482
96	470	473	490	478

Endurance

	57	58	109	110	161	162	213	214
4900	467	482	492	477	470	447	443	430
4898	478	493	495	485	480	462	456	442
96	472	483	492	467	461	439	432	411

	265	266	317	318	369	370	421	422	523	524
4900	409	411	361	372	392	387	387	355	232	233
4898	420	422	377	379	397	390	358	323	343	297
96	395	397	342	333	353	340	312	265	187	198

		625	626
4900	Break 2100 New put in	S.C.	250
4898		243	277
96		194	223

CD

Calipers

	Original	After 1st Run	Before Endurance
4903	97-106-107	105-107	109-108
02	96-106-107	105-107	109-106
01	94-102-105	107-107	110-106

Section II

4903 02 01	Reversed perf old C cups 21% Chg 15 h 200 dis 100

4903	478	488	492	485
02	477	488	492	484
01	483	487	487.	483

Endurance

	57	58	109	110	161	162	213	214
4903	480	492	511	487	483	452	428	415
02	487	492	500	480	462	433	400	390
01	472	482	492	465	450	424	396	386

	265	266	317	318	369	370	421	422	523	524
9.03	397	392	328.	333	333	333	320	265	150	162
02	377	367	278	394	267	267	278	222	155	163
01	377	367	267	394	267	267	263	212	145	147

		625	626							
9.03	Break 21% 80% [illegible]	162	176.							
02		167	175							
01		127	153							

Calipers

	Original	After 1st Run	Before Endurance	422nd run
4909	88-100-98	99-99	102-99	118-112
08	91-101-102	99-104	102-105	116-113
07	93-104-104	100-104	108-104	118-115

Section II

4909 08 07	5 ri put in 5000 hole cups – chg 15 h 200 dis 100 –

4909	485	497	492	488
08	487	500	497	492
07	490	500	497	491

Endurance

	57	58	109	110	161	162	213	214
4909	487	496	504	487	488	457	443	467
08	504	509	523	505	512	477	453	480
07	497	505	511	499	500	470	450	478

	265	266	317	318	369	370	421	422	523	524
4909	425	423	367	383	383	372	190	333	150	155
08	442	442	392	390	397	397	367	353	229	228
07	433	433	377	394	390	383	367	357	167	179

	0	625	626							
09	[illegible]	153	157							
08		250	203							
07		185	192							

Calipers

	Original	After 1st Run	Before Endurance
4060C	88-100-101	96-102	105-105
B	88-99-101	97-102	102-102
A	89-100-102	99-104	106-109

Section I

4060C Reg pockets 3.2 gms
60B Reversed perforations
60A Smooth press 10.0 covering 7.5
Charged reverse 15 hrs in 33% KOH
assembled with charged irons
Chg 15 hrs @ 20.0 dischg @ 10.0

	1	2	3	4	5	6
4060C	539	534	543	458	367	532
B	533	528	536	450	383	522
A	522	515	532	367	375	508

Endurance

	59	61	62	113	114	165	166	217	218
4060C	592	543	507	543	522	495	483	458	442
B	542	522	483	512	488	460	450	442	417
A	547	508	467	508	467	438	420	380	400

KOH spilled put in new

	269	270	321	322	473	474	575	576		677
4060C	428	393	352	351	285	260	230	250	Fresh 21% KOH put in	241
B	400	375	340	332	257	257	265	263		229
A	367	338	310	297	249	207	SC	Wire broke		212

	678
4060C	233
B	222
A	183

Caliper

	Original	After Run	Before Endurance
4060F	87-100-99	2-108	105-105
E	94-102-102	[illegible]-106	108-105
D	92-100-104	2-110	105-106

Section I

4060F Reg pockets 3.2 gms
E Revised perforations.
D Smooth press 100 carry 75
charged reg. 15 hrs in 33% KOH
assembled with charged irons
Chg 15 hrs @ 200 dischg @ 1.00

4060F	517	535	529	358	375	522	
E	523	535	525	412	383	S.C.	521
D	521	518	530	358	333	527	

Endurance

				113	114	165	166	217	218
4060F	538	508	483	500	478	453	447	415	403
E	543	510	483	508	492	460	457	433	417
D	572	508	492	508	461	442	433	400	402

Spilled KOH put in new

	269	270	321	322	473	474	575	576		677
4060F	390	354	337	330	S.C.	180	S.C.	217	Fresh 21% KOH put in	193
E	400	389	347	342	200	260	228	227		210
D	367	333	317	288	250	235	250	262		184

	678									
4060F	213									
E	206									
D	185									

Calipers

	Original	After 1st Run	Before Endurance
4061C	87-97-103	110-116	105-108
B	89-102-103	102-108	99-105
A	86-98-102	100-102	102-99

Section I

4061C Reg cups #385 Ni mix 3.2 gm
B Fine graphite sprinkled on inside
A of cups. Pressed reg run
with reg irons
chg 200 dischg 100

				500		
	1	2	3	4	5	6
4061C	518	533	529	479	491	522
B	540	545	541	496	508	533
A	535	543	533	471	483	524

Endurance

	59	61	62	113	114	165	166	217	218
4061C	585	547	532	544	515	527	503	493	482
B	583	552	550	555	528	523	512	508	495
A	573	547	533	533	523	517	507	497	496

	269	270	321	322	473	474	575	576		677
4061C	481	465	442	457	398	395	367	390	Fresh 21% KOH put in	293
B	489	477	452	460	350	345	175	178		197
A	489	465	443	467	417	393	378	383		350

	678
4061C	336
B	195
A	349

Calipers

	Original	after 1st Run	Before Endurance
4112	88-98-102	98-100	100-100
11	85-98-99	96-102	95-100
10	88-100-100	100-104	103-103

	684	685
4112	149	157
11	82	90
10	79	93

Section I

4112 | Reversed perforations 3.2 Rey
11 | mix to be charged 15 hrs 200 –
10 | dischg 100 21%

	1	2	3	4	5	6	7	8	9	10
4112	525	524	525	520	517	537	533	520	517	512
11	530	532	534	528	532	550	550	533	527	525
10	533	S.C.	527	523	528	547	543	532	525	519

	11	12	13
4112	515	357	502
11	527	371	513
10	525	354	500

Endurance

	66	68	69	120	121	172	173	224	225
4112	510	500	497	492	467	433	440	400	400
11	512	504	S.C.	524	481	438	447	433	413
10	500	483	486	467	447	417	420	387	382

	276	277	328	329	480	481	582	583	
4112	367	337	330	320	214	212	160	167	Broke 2-15 NOT finished
11	400	375	353	352	188	188	105	122	
10	352	317	302	287	159	150	100	108	

Calipers

	Original	After 1st Run	Before Endurance
41 99	87-100-101	101-102	99-100
98	94-101-101	100-102	104-105
97	90-100-103	95-100	100-101

	687	685
4199	92	97
98	145	143
97	148	167

Section I

4199 | 4 Ni reversed 15 hrs 100 rate
98 | @ 150° F in 33% stick KOH
97 | against C.P. Ni strip
charged and dischgd in 21% KOH
chgd 15 hrs @ 200 Run @ 100.

	1	2	3	4	5	6	7	8	9
4199	476	500	457	489	500	509	511	496	522
98	478	490	462	492	500	509	512	482	520
97	482	493	466	487	510	514	517	490	527

	10	11	12	13	14	15	16		
4199	498	509	507	510	506	530	503		
98	498	509	503	510	516	532	600		
97	500	517	508	514	516	537	515		

Endurance

	69	71	72	123	124	175	176	227	228
4199	567	533	524	532	500	493	472	467	453
98	570	523	532	538	511	507	500	493	473
97	567	533	533	557	529	520	515	507	492

	279	280	331	332	483	484	585	586	
4199	447	417	408	395	133	140	27	43	End. 21% KOH put in
98	467	458	437	442	300	293	77	87	
97	481	468	453	457	367	363	222	233	

Calipers

	Original	After 1st Run	Before Endurance
4213	88-100-101	99-100	98-103
11	88-98-102	96-104	97-104
09	89-99-101	100+102	110-105

Section I

4213 | 5 Ni. charged 15 hrs @ 200
11 | @ 175°F in Tumbler containing
09 | 33% KOH and 4 grms Silicate Soda
Charged & discharged in 21%
Chg 15 hrs @ 200 run @ 100

	1	2	3	4	5	6	7	8	9
4213	638	S.C.	567	497	503	508	510	503	475
11	607	552	517	482	464	453	467	413	416
09	703	733	708	673	659	642	647	600	597

Endurance

	62	64	65	116	117	168	169	220	221
4213	490	505	523	527	510	508	507	487	473
11	433	442	455	450	447	438	447	417	408
09	531	528	532	526	512	493	500	467	467

	272	273	324	325	476	477	578	579	
4213	475	450	425	467	350	337	267	S.C.	Fresh 21% KOH put in
11	400	372	350	342	228	233	228	227	
09	443	425	415	413	300	227	220	217	

	680	681								
4213	233	230								
11	226	228								
09	200	210								

Calipers

	Original	After 1st Run	Before Endurance
4266	88-103-101	98-102	100-101
65	91-104-104	100-108	101-105
64	89-102-97	97-100	98-99

	273	274	325	326	477	478	579	580		681
4266	467	437	420	418	267	255	182	187	Brushed plates KOH applied	108
65	487	442	409	413	350	320	252	265		219
64	449	417	402	397	262	238	167	167		140

	652									
4266	110									
65	230									
64	152									

4266										
65										
64										

Section I

4266 | 5 Mis #424 mix, Mix dried 2 hrs
65 | @ about 220° before putting in
64 | pockets and quickly used.

Soaked 96 hrs in 33% KOH, in big bottle on hot plate Avg Temp 144°F

Pockets heated 4 hrs @ 220°F and plunged quickly in 33%

Time elapsed from taking out of bottle and assembling with irons that have been run, was 38 hrs

Charge 15 hrs @ 200 dischg @ 100 in 21%

	1	2	3	4	5	6	7	8	9
4266	385	442	473	492	447	497	490	484	483
65	412	488	487	508	468	521	517	502	511
64	385	460	473	485	446	500	490	489	472

	10								
4266	487								
65	515								
64	490								

Endurance

	63	65	66	117	118	169	170	221	222
4266	547	526	522	532	505	530	500	493	470
65	590	562	548	583	517	532	517	497	470
64	547	530	523	530	505	488	482	473	455

Calipers

	Original	After 1st Run	Before Endurance
43556	92-102-103	100-104	104-1.04
55	90-101-104	97-1.02	102-103
54	91-102-104	99-105	103-1.05

	681	682
4356	398	266
55	267	254
54	302	293

Section I

43 56 | 5 Ni's charged @ 150° F 15 hrs
55 | @ 100 against C.P. Ni strip
54 | in 33% KOH in tumbler
glass used instead of rubber
Soaked 6 hrs in 21%.
Charged 15 hrs @ 200 dischg @ 100 in 21%

	1	2	3	4	5	6	7	8	9
4356	650	533	554	547	545	506	533	533	518
55	643	532	547	542	542	505	532	525	513
54	633	532	548	546	543	507	532	525	513

	10
4356	517
55	517
54	512

Endurance

	63	65	66	117	118	169	170	221	222
4356	590	562	547	540	518	512	500	493	477
55	593	562	547	557	507	522	507	492	490
54	607	562	549	566	533	500	515	497	492

	273	274	325	326	477	478	579	580	
4356	467	454	442	443	357	345	267	260	Ended 2-15-51 Not put in
55	477	455	433	467	363	360	297	295	
54	491	470	447	467	397	393	228	250	

Calipers

	Original	After 1st Run	Before Endurance
4361	89-109-110	105-108	104-106
60	88-109-110	105-107	108-110
59	89-110-111	100 + 102	104-107

	679	680
4361	218	223
60	208	216
59	192	204

Section I

4361 | 5 Rey Ni pressed @ 50 atmos
60 | heat on hot plate + lower
59 | slowly in 33%. Soak 6 hrs.

assembled into cells in 33% KOH.
Charged 15 hrs @ 100 @ 150°F
disconnected nickels and soaked
10 hrs in large jar of water
then dried on hot plate 3 hrs.
at 125°F
Smooth press 100 Corrugated 75.
Assembled in cells and charged
again 15 hrs @ 200 dischg 100.

	1	2	3	4	5	6	7	8
4361	570	567	540	515	533	S.C.	507	530
60	583	582	545	537	539	523	520	530
59	518	518	525	513	516	495	490	508

Endurance

	61	63	64	115	116	167	168	219	220
4361	547	531	522	523	485	492	483	467	467
60	553	546	532	537	518	505	500	488	475
59	588	545	522	533	500	492	477	467	467

	271	272	323	324	475	476	577	578	
4361	450	429	422	412	348	332	257	253	Broke 21% KOH put in
60	458	443	430	423	352	347	258	255	
59	456	422	408	398	307	278	220	215	

Calipers

	Original	After 1st Run	Before Endurance	
4387	86-99-99	94 - 99	98 - 101	
86	89-101-103	96 - 104	99 - 104	
85	90-102-103	100 - 104	108 - 108	

	275	276	327	328	479	480	581	582		683
4387	487	463	452	442	183	167	40	43	Trickle 2 1/2 100% put in	142
86	500	486	472	472	400	390	387	357		254
85	438	417	415	398	283	227	255	252		158

	684									
4387	164									
86	255									
85	165									

4387										
86										
85										

Section I

4387 | 5 Nis Charged 15 hrs @ 100
86 | against C.P. Ni Strip @ 150° F
85 | in 33% and then assembled
with irons charged 24 hrs @ 200
in 21% KOH @ 150°F.

The cell after assembling is to be discharged @ 100 with out further charging.

	1	2	3	4	5	6	7	8	9
1387	413	535	525	263	497	521	570	517	515
86	418	553	547	217	491	520	S.C.	S.C.	498
85	443	605	567	545	540	548	535	554	538

	10	11	12						
1387	519	521	513						
86	510	509	510						
85	554	558	547						

Endurance

	65	67	68	119	120	171	172	223	224
387	552	533	522	543	518	522	507	505	490
86	538	533	522	543	524	532	508	523	500
85	562	543	522	532	512	492	485	467	467

Calipers

	Original	After 1st Run	Before Endurance
4391	92-103-104	100-105	93-102
90	91-102-104	99-106	104-106
89	92-103-104	100-106	100-104

	680	681
4391	183	193
90	242	251
89	257	260

Section I

4391 | 5 Nis charged 15 hrs @ 1.00
90 | in 33% @ 150° F. Soaked
89 | 10 hrs in 21% then charged
15 hrs more @ 2.00 against C.S.
Ni strip then assembled with
irons which have been charged
24 hrs @ 2.00 in 21% @ 150° F
After assembling discharge @ 1.00

	1	2	3	4	5	6	7	8	9
4391	550	554	525	525	457	532	532	527	527
90	588	555	528	528	455	388	527	532	532
89	580	S.C.	483	479	423	365	S.C.	S.C.	

Endurance

	62	64	65	116	117	168	169	220	221
391	594	553	547	555	525	505	508	492	493
90	606	553	547	550	525	510	507	490	480
89	563	546	522	544	513	523	506	500	482

	272	273	324	325	476	477	578	579	
391	478	458	433	S.C.	342	320	233	233	Tank 21%. Not put in
90	467	453	440	467	383	368	313	313	
89	487	454	444	437	367	360	300	300	

Calipers

	Original	After 1st Run	Before Endurance
4396	90-100-103	97-103	102-105
95	92-101-105	98-103	104-105
94	92-102-104	100-105	104-106

Section I

4396 | Same as 4389 but with
95 | reverse perforations
94 |

	1	2	3	4	5	6	7
4396	517	542	530	549	527	530	522
95	533	543	530	552	527	522	530
94	540	543	532	551	530	517	528

Endurance

	60	62	63	114	115	166	167	218	219
4396	570	527	515	522	538	455	450	412	410
95	575	543	522	522	495	458	450	427	412
94	570	543	520	525	498	483	467	402	438

	270	271	322	323	474	475	576	577	
4396	388	361	333	333	232	255	217	200	[illegible]
95	400	372	347	338	229	217	200	193	
94	428	375	368	353	215	200	167	247	

	678	679
4396	136	155
95	130	157
94	112	111

Calipers

	Original	After 1st Run	Before Endurance
4406	96-107-107	105-110	119-111
05	96-106-109	105-110	125-116
04	100-110-111	110-114	121-117

	271	272	323	324	475	476	577	578		679
4406	391	379	327	295	207	200	158	175	Made 21% KOH put in	100
05	347	337	318	297	215	208	216	220		194
04	367	354	312	291	196	188	S.C.	150		119

	680
4406	117
05	197
04	139

Section I

4406 | 5 Nis made dry mix made
05 | from Green nickel and powdered
04 | in agate mortar very fine

rolled without water 8 + 2 of the graphite. One part recovered & one part coarse 3.2 gram cake
Reversed perforations
Charged 15 hrs @ 100 against nickel strip in 33% @ 150° F then soaked 10 hrs in 21% KOH
Charged again 15 hrs @ 200 against nickel strip and assembled with irons charged 24 hrs @ 200 in 21% @ 150° F and dischged @ 100

	1	2	3	4	5	6	7	8
4406	612	605	567	545	552	555	540	500
05	642	612	567	553	567	571	555	567
04	622	593	558	535	548	554	527	558

Endurance

	61	63	64	115	116	167	168	219	220
4406	540	515	518	483	472	455	450	432	433
05	540	530	550	440	453	443	452	383	400
04	537	512	522	467	467	438	433	400	400

Calipers

	Original	After 1st Run	Before Endurance
4416	92-102-102	96-104	102-105
15	85-98-99	95-100	98-102
14	89-99-105	98-104	103-103

	679	680
4416	110	118
15	127	124
14	120	127

Section I

4416 | 5 mis reverse perforations
15 | soaked 24 hrs in 33% @ 150°F
14 | Soaked 12 hrs in large jar water
Dried on hot plate on paper
Then recorrugated @ 75 atmos
Charged 15 hrs @ 100 against C P nickel
strip in 33% KOH @ 150°F.
Soaked 10 hrs in 21% and assembled
in cells with irons charged 24 hrs
@ 200 hot after assembling
chg 15 hrs @ 200 + dischg @ 106 in 21%

	1	2	3	4	5	6	7	8	
4416	598	519	532	457	533	541	533	531	
15	587	513	528	452	532	532	522	525	
14	597	520	527	543	537	542	532	533	

Endurance

	61	63	64	115	116	167	168	219	220
4416	557	545	521	525	496	467	467	432	418
15	570	516	508	508	473	452	450	400	408
14	574	534	521	522	485	458	447	397	387

	271	272	323	324	475	476	577	578	
4416	408	392	352	345	200	191	93	117	Fresh 21% KOH put in.
15	390	382	333	343	222	207	117	143	
14	391	367	340	322	214	200	133	150	

Calipers

	Original.	After 1st Run	Before Endurance
4589	122-120-117	146-135	154-135
88	122-118-118	145-136	153-134
87	121-120-116	147-134	155-129

	680	681
4589	297	320
88	330	350
87	345	353

Section I

4589 | 3 Ni 3.84 gm # 2188 J.W.A.
88 | 2.56 $Ni(OH)_2$
87 | Pressed 100 smooth 100 corrugated with Goddards concave & convex dies Material loaded in outside cup The inside cup being concave Put in 21% KOH & chg regular with two reg charged Fes.

Run 3 times @ 100 & 3 times @ 500

				500 rate					
4589	570	582	579	525	533	500	575	563	582
88	569	578	572	533	525	600	570	558	580
87	570	573	575	533	550	S.C.	567	558	565

Endurance

	62	64	65	116	117	168	169	220	221
4589	650	577	600	653	647	608	587	583	575
88	648	600	590	643	609	610	593	577	575
87	612	600	580	640	602	597	583	578	563

	272	273	324	325	476	477	578	579	
4589	597	576	580	600	497	485	360	355	[illegible]
88	583	572	567	602	508	512	412	402	
87	579	567	573	600	514	516	423	493	

Calipers

	Original	After 1st Run	Before Endurance
4592	101-97-97	109-104	117-102
91	102-98-98	114-110	118-99
90	102-96-99	114-109	117-103

	680	681
4592	100	127
91	217	317
90	206	220

Section I

4592	3 ni 3.2 gm #424 Reg. Ni Mix
91	Reverse perforations of reg strip
90	Ni plating (cups washed by HCl + KOH)

Goddards concave - convex dies
Inside cup loaded in regular way
Pressed 100 smooth 100 corrugated
Run in 21% against 2 chged Fes.
Run 3 times @ 100 + 3 times @ 500

				500 rate					
4592	515	526	525	417	442	400	537	517	527
91	512	527	528	417	425	425	545	517	530
90	508	522	522	417	425	392	533	508	519

Endurance

	62	64	65	116	117	168	169	220	221
4592	596	533	530	557	517	492	477	458	451
91	558	543	542	573	532	498	490	458	461
90	567	531	520	547	509	493	480	458	457

	272	273	324	325	476	477	578	579	
4592	450	418	362	367	266	240	130	140	Fresh 21% KOH put in
91	449	421	383	377	300	292	257	255	
90	444	415	363	372	264	248	sc	sc	

Calipers

	Original	After 1st Run	Before Endurance
4914	93-103-103	105-109	110-106
12	94-103-104	105-105	111-107
11	89-101-102	92-102	109-106

Section II

4914/ 5 Ni in 5000 hole cups
12/ Reversed perforations 3.2 21%
11| chg 15 hrs @ 200 Run @ 100

4914	487	500	482	494						
12	480	492	489	477						
11	478	488	487	481						

Endurance

	57	58	109	110	161	162	213	214	265	266
4914	500	515	533	500	509	470	467	490	452	447
12	480	495	513	478	487	451	443	460	421	421
11	480	493	507	477	484	447	432	457	412	414

	317	318	369	370	421	422	523	524		625
4914	392	393	414	412	411	397	353	362	Break 7/6/0 HOH put in	293
12	348	360	367	367	362	338	248	242		230
11	327	343	350	365	344	325	229	227		250

	626									
4914	286									
12	225									
11	243									

Calipers

	Original	After 1st Run	Before Endurance
4921	88-98-102	96-100	
20	88-100-103	97-104	100-104
19	88-100-100	96-102	100-103

Section

Reg.

4921 | Group of 10 Irons old irons will
20 | do. Made anode in 33%
19 | @100 rate for 15 hrs assembled
with reg nickels
Charged 15 hrs @200 dischg @100

4921	508	517	505	508	513	520	502	499	500	
20	505	507	497	500	500	514	495	493	495	
19	500	510	502	487	503	513	490	499	500	

Endurance

	62	63	114	115	166	167	218	219	270	271
4921	514	525	547	515	522	483	475	497	454	456
20	498	508	533	500	489	447	433	455	407	394
19	506	523	543	513	514	477	474	497	456	452

	322	323	374	375	426	427	528	529		630
4921	392	400	406	400	377	333	228	230	Break-210 NOT put in	320
20	300	325	283	300	294	255	167	178		219
19	380	393	397	393	367	330	323	243		253

CD

	631									
4921	277									
20	228									
19	243									

Calipers

	Original	After 1st Run	Before Endurance
4927	90-101-102	98-102	109-105
26	91-102-103	97-103	105-106
25	90-99-101	97-103	108-104

	633
4927	217
26	240
25	248

Section II

11927 | 5 nickels Reversed perforations
26 | 21% KOH put in little cell 2 grams
25 | Sulphate of Potash
Chged 15 hrs @ 200

4927	488	514	508	505	497	525	512	507	508	500
26	486	573	505	497	497	525	512	508	508	500
25	486	510	503	505	495	525	517	508	570	500

4927	498
26	498
25	500

Endurance

	64	65	116	117	168	169	220	221	272	273
4927	505	518	531	500	500	446	445	467	423	419
26	500	516	522	503	498	461	433	463	422	422
25	506	520	517	500	487	457	429	455	398	394

	324	325	376	377	429	429	530	531		632
4927	348	352	343	333	293	232	165	167	Broke 2 1 of 0 NOON test run	167
26	347	353	342	333	295	260	187	190		219
25	315	327	313	300	294	260	190	197		227

Calipers

	Original	After 1st Run	Before Endurance
4938	94-101-105	102-106	108-106
36	89-103-103	98-103	102-105
34	90-101-103	99-102	103-105

Section II

4938 | 5 Nickels Reversed perforations
36 | 21% KOH containing 5 grammes
34 | of Cyanate of potash (not Cyanide).
Chg 15 hrs @ 200 · Run @ 100

4938	463	480	495	467	463	495
36	458	478	475	467	433	467
34	465	490	493	473	464	495

Endurance

	59	60	111	112	163	164	215	216	267	268
4938	499	507	529	513	508	464	462	495	439	437
36	493	500	505	477	487	445	433	467	425	421
34	498	507	530	514	507	458	453	495	444	440

	319	320	371	372	423	424	525	526		627
4938	357	367	365	365	242	232	177	187	Break 21% KOH put in	280
36	353	350	348	333	267	258	167	183		227
34	373	391	380	367	300	292	188	178		255

	628
4938	252
36	227
34	180

Calipers

	Original	After 1st Run	Before Endurance
4948	92-102-104	99-103	99-105
47	94-103-105	99-104	103-105
46	93-102-105	100-102	105-106

Section II

4948 | 5 Nickels in 21% Revised
47 | perforations containing 3
46 | grammes of Sugar
Chgd 15 hrs @ 200 dischgd @ 100

4948	455	491	500	502	483	497				
47	455	498	507	502	467	465				
46	SC	487	507	502	486	497				

	59	60	111	112	163	164	215	216	267	268
4948	505	521	528	505	497	464	447	462	426	424
47	467	485	488	463	472	441	430	453	407	397
46	500	518	523	477	497	445	442	460	416	414

	319	320	371	372	423	424	525	526		427
4948	272	SC	313	SC	298	273	177	177	Made 21% NOT put in	188
47	293	292	292	250	180	167	87	108		150
46	333	352	343	333	252	222	177	162		218

	628									
4948	212									
47	160									
46	197									

Calipers

	Original	After 1st Run	Before Endurance	After 272 Runs
4958	114-109-109		107 - 100	125-110
57	114-110-110	109-113	107 - 100	127-116
54	112-107-110		100 - 107	125-112

Section II

4958 | 5 Nickel Reversed perforations
57 | Cups made with new 5 to inch
54 | corrugations No smooth die used but only one pressure used & that with new die,

Press 5 atmos 21% Chyd 1.5 hrs dischg @ 1.00

4958	400	390	367	367	367	367	344	353	347	345
57	330	293	271	277	269	279	250	240	249	247
54	357	323	308	314	300	310	291	290	295	290

Endurance

	63	64	115	116	167	168	219	220	271	272
4958	233	300	267	258	230	195	156	184	167	155
57	190	185	167	155	133	133	88	100	100	97
54	238	267	219	197	167	143	117	133	12[illegible]	121

4958										
57										
54										

CD Bray & Represents 200 atmos

4958										
57										
54										

Calipers

	Original	After 1st Run	Before Endurance	After 272 Runs
4963	112-108-112	117-111		127-110
61	114-110-111			127-11.8
60	115-110-114			130-120

Section II

4963 }
61 } Dup. of 4954 with 1.0 atmos
60 }

4963	433	420	416	407	412	405	488	392	397	380
61	443	429	417	423	432	424	408	430	419	400
60	448	432	417	420	425	417	400	S.C.	400	392

Endurance

	63	64	115	116	167	168	219	220	271	272
4963	S C	333	345	328	290	267	222	233	185	183
61	382	392	350	333	290	267	222	238	195	195
60	382	392	347	388	298	297	238	256	200	195

4963										
61										
60										

Co

4963										
61										
60										

Calipers

	Original	After 1st Run	Before Endurance	After 272 Run
4968	113-108-110	118-113		120-116
67	114-107-112	115-109		127-110
64	113-105-107	113-109		127-122

Section II

4968 | Dup of 4954 at 20 Atmos
67
64

4968	482	463	483	479	477	479	461	462	467	458
67	482	463	485	480	477	482	453	463	467	457
64	451	453	462	452	451	450	466	433	438	428

Endurance

	63	64	115	116	167	168	219	220	271	272
4968	433	452	430	414	387	367	343	373	325	315
67	489	452	433	415	387	359	340	367	316	300
64	422	433	423	398	377	357	333	367	319	312

4968										
67										
64										

CO

4968										
67										
64										

4968										
67										
64										

Calipers

	Original	After 1st Run	Before Endurance	after 272 Runs
4973	114-110-112	114-108		122-114
71	115-110-105	118-112		130-115
70	113-108-109	118-114		125-108

Section II

4973 Dup of 4954 at 40 Atmos
71
70

4973	490	488	500	497	500	497	486	475	484	467
71	488	487	497	492	495	483	473	477	484	475
70	508	494	507	500	504	505	492	498	500	492

Endurance

	63	64	115	116	167	168	219	220	271	272
4973	467	492	497	475	471	443	431	455	416	411
71	467	488	477	452	436	400	381	403	367	357
70	492	507	508	482	474	442	428	457	406	398

4973										
71										
70										

CD

4973										
71										
70										

4973										
71										
70										

Calipers

	Original	After 1st Run	Before Endurance	After 272 Runs
4977	109-105-108	112-103		128-113
76	110-107-108	116-107		125-120
74	110-108-108	116-110		130-115

Section II

4977 | Dup of 4954 at 80 atmos
76
74

4977	503	507	513	508	511	573	498	500	497	
76	513	488	500	489	492	497	498	490	482	
74	458	450	442	428	422	418	408	400	413	393

Endurance

	62	63	114	115	167	168	219	220	271	272
4977	499	502	517	500	500	470	461	480	447	442
76	483	500	500	485	483	450	438	457	421	417
74	398	420	400	387	377	353	338	367	328	325

4977										
76										
74										

Co

4977										
76										
74										

4977										
76										
74										

Calipers

	Original	After 1st Run	Before Endurance	422nd run.
4982	102-101-102	106-105		124-116
81	102-100-101	112-104		120-115
80	104-102-103	108-102		126-100

Section II

4982	Dup. of 4954 at 160 atmos
81	
80	

4982	507	496	513	511	512	511	507	505	517	503
81	498	496	510	508	508	508	498	504	509	498
80	522	513	527	521	525	527	513	513	524	513

Endurance

	63	64	115	116	167	168	219	220	271	272
4982	512	514	512	512	537	487	479	510	474	474
81	500	520	573	512	517	487	493	498	467	467
80	576	533	523	618	553	500	500	514	481	481

	323	324	375	376	427	428	529	530	0	631
4982	420	400	452	442	380	378	325	328	Broke 210 Not [illegible]	253
81	417	423	446	431	367	350	317	367		253
80	440	427	452	441	367	350	233	267		217

	632									
4982	242									
81	230									
80	233									

4982										
81										
80										

Calipers

	Original	After 1st Run	Before Endurance
4987	93-102-107	103-110	108-110
86	93-101-105	98-102	106-106
84	93-104-104	101-105	104-106

Section II

4987 | 5 Reg Ni. Reversed perforations
86 | 21% Containing 5 gms. Citrate
84 | Potash

Chged. 15 hrs @ 200 Dischgd @ 100

4987	467	497	499	503	484	496				
86	474	308	572	503	497	505				
84	472	499	506	504	492	500				

Endurance

	59	60	111	112	163	164	215	216	267	268
4987	497	513	517	497	482	449	428	452	406	406
86	523	540	548	527	525	492	481	500	452	454
84	515	529	527	510	507	470	447	467	418	417

	319	320	371	372	423	424	525	526		627
4987	305	327	350	323	243	232	313	262	Broke 21% H2O put in	182
86	392	397	404	393	300	297	373	367		223
84	333	352	233	323	244	238	333	233		183

	628									
4987	205									
86	230									
84	222									

Calipers

	Original	After 1st Run	Before Endurance
5030	91-103-105	100-106	103-108
29	91-102-103	100-105	102-107
28	90-100-102	98-105	102-107

Section II

5030 | 5 Reg. Mix. Reversed Perforations
29 | 21% Containing 2 grammes of
28 | Glucose in each cell

Chgd 15 hrs @ 20.0 dischgd @ 10.0
Solution Red.

5030	407	459	486	490	502	507				
29	387	452	483	483	500	51.4				
28	383	437	471	468	494	500				

Endurance

	59	60	111	112	163	164	215	216	267	268
5030	492	500	503	475	466	446	420	400	354	322
29	507	527	541	518	522	498	472	461	440	44.0
28	496	513	527	500	483	450	433	425	400	393

	319	320	371	372	423	424	525	526		627
5030	267	217	270	250	184	188	142	163	3 weeks 2 10% KOH put in	10.6
29	380	392	397	384	295	272	197	207		208
28	332	327	310	295	183	196	147	157		14.5

	628									
5030	153									
29	178									
28	148									

Calipers

	Original	After 1st Run	Before Endurance
5035	91-103-103	99-105	103-107
34	90-101-103	98-103	103-107
33	90-103-104	99-105	104-107

Section II

5035 | 5 Reg Ni Reversed perforations 21%
34 | The Solution contains 2 grammes
33 | of filter paper in each cell cut
about 1/8" square Chgd 15 hrs 200 Dschg @ 10.0

	60									
5035	503	503	510	498	515	517	493			
34	488	490	493	491	499	500	483			
33	505	510	516	503	521	518	497			

Endurance

	60	61	112	113	164	165	216	217	268	269
5035	492	506	498	481	462	433	417	400	357	345
34	478	492	490	472	447	424	396	389	357	345
33	491	505	492	472	462	432	400	395	353	340

	320	321	372	373	424	425	526	527		628
5035	233	235	267	247	182	182	150	133	Break 21% NaOH put in	160
34	267	267	263	233	326	262	217	272		127
33	233	233	253	233	356	316	258	200		103

	629
5035	185
34	147
33	57

Calipers

	Original	After 1st Run	Before Endurance
5041	91-101-101	98-102	1.04-105
40	91-104-101	100-107	1.02-105
38	90-100-103	98-104	1.03-104

Section II

5041 | 5 Reg Ni Reversed Perforations 21%
40 | Containing 2 grammes Acetone
38 | in each cell
Chgd. 16 hrs @ 200 Dischgd @ 100
5038 - Solution Yellow & floculant

5041	196	315	383	432	431	463				
40	117	255	320	398	380	433				
38	196	323	387	440	445	467				

Endurance

	59	60	111	112	163	164	215	216	267	268
5041	422	445	350	422	200	192	166	200	295	160
40	395	428	333	395	398	372	325	267	300	191
38	423	443	367	427	377	300	289	80	225	167

	319	320	371	372	423	424	525	526		627
5041	117	117	120	115	50	67	30	26	Break 7/6/10 4074 July [illegible]	7
40	215	167	167	133	100	104	85	90		85
38	156	150	150	147	120	127	97	113		122

	628									
5041	43									
40	117									
38	152									

Calipers

	Original	after 1st Run	Before Endurance
5045	92-103-104	[illegible]	103-104
44	95-106-106	[illegible]	106-107
43	89-100-102		99-100

Section II

5045 | 5 Reg Nos Reversed Perforations 21%
44 | Containing 2 grms Hypophorous
43 | Potash

Chgd 15 hrs @ 200 Dischgd @ 100

5045	452	489	485	497	490	490				
44	428	491	482	487	485	492				
43	437	471	462	476	470	475				

Endurance

	59	60	111	112	163	164	215	216	267	268
5045	575	520	500	494	516	480	475	457	433	443
44	521	523	498	492	517	495	480	462	445	452
43	498	500	467	472	483	452	444	431	410	408

	319	320	371	372	423	424	525	526		627
5045	383	400	383	383	319	316	223	226	Break 2 10/10 NOV put in	172
44	390	400	392	383	343	324	267	278		222
43	347	350	350	333	257	251	107	122		83

	628									
5045	225									
44	233									
43	100									

Calipers

	Original	After 1st Run	Before Endurance
5052	92-102-104	102-104	108-106
51	91-102-103	100-104	105-106
50	91-101-103	101-104	104-106

Section II

5052 | 5 Reg. Ni. Revised Perforations 21%
51 | Containing 3 gms precipitated
50 | (fresh) Carbonate of Lime
Chgd 15 hrs @ 7.00 Dischgd @ 1.00

5052	490	498	513	500	498	505	500			
51	487	494	507	492	492	497	498			
50	487	497	508	508	493	499	500			

Endurance

	60	61	112	113	164	165	216	217	268	269
5052	506	510	497	481	500	473	457	429	400	374
51	498	498	467	467	483	448	440	423	367	357
50	506	513	500	482	512	477	458	441	400	388

	320	321	372	373	424	425	526	527		628
5052	333	242	257	223	233	222	133	153	Broke 2:10 H2O put in	158
51	275	297	252	220	215	205	127	150		158
50	283	303	287	267	217	233	180	207		180

	629									
5052	178									
51	180									
50	206									

Calipers

	Original	After 1st Run	Before Endurance
5057	92-103-104	101-105	108 - 105
56	93-105-104	103-106	108 - 108
54	92-105-105	101-106	110 - 109

Section II 6

5057 | 5 Reg Nis Reversed Perforations in
56 | 21% Containing 2 grammes of
54 | freshly precipitated carbonate
of Barium
Chgd 15 hrs @ 200 Dischgd @ 100

5057	494	503	502	508	506	500	500	517	510	500
56	494	503	512	512	507	497	500	531	512	500
54	493	506	517	514	507	500	500	531	514	507

Endurance

	63	64	115	116	167	168	219	220	271	272
5057	495	497	522	508	483	472	467	456	433	425
56	493	493	523	510	488	460	461	454	429	424
54	492	495	523	498	487	472	462	455	429	424

	323	324	375	376	427	428	529	530		631
5057	413	417	408	384	342	317	257	252	Break 21% Hold Apl	260
56	398	393	370	357	317	273	200	225		213
54	377	367	388	376	333	300	223	225		225

	632
5057	247
56	227
54	227

Calipers

	Original	After 1st Run	Before Endurance
5062	92-103-106	101-106	110-107
60	100-112-112	110-113	114-114
59	99-110-113	110-115	113-115

Section II

5

5062 | 5 Reg Nickels Reversed Perforations in
60 | 21% containing 2 grammes
59 | freshly precipitated Carbonate
Magnesia Chgd 15 hrs @ 200 dischgd @ 100

5062	483	486	493	492	489	485	492	513	495	485
60	533	547	554	558	555	549	560	577	558	550
59	533	543	552	546	545	533	550	558	545	537

Endurance

	63	64	115	116	167	168	219	220	271	272
5062	494	496	517	500	485	455	440	433	407	397
60	550	552	575	557	538	533	507	505	488	481
59	526	523	552	528	487	474	433	440	400	389

	323	324	375	376	427	428	529	530		631
5062	373	367	333	325	270	243	200	218	Broke 2 to 5 Hol. July 3	208
60	450	447	408	400	333	324	294	243		260
59	390	377	262	233	217	205	167	185		197

	632									
5062	227									
60	267									
59	223									

Calipers

	Original	After 1st Run	Before Endurance
5066	93-105-104	101-106	108-107
65	95-106-106	103-107	105-105
64	91-104-101	98-106	104-105

Section II

5066 | 5 Reg Nickel Reversed Perforations
65 | in 21% Containing 2 grammes
64 | Magnesia Hydroxide
Chgd 15 hrs @ 2.00 Dischgd 1.00

5066	482	493	505	499	488	495	498			
65	482	487	500	497	490	497	498			
64	485	494	513	492	495	505	503			

Endurance

	60	61	112	113	164	165	216	217	268	269
5066	483	492	497	503	465	442	412	400	367	355
65	497	501	528	517	507	477	459	454	428	430
64	502	514	533	520	508	482	466	452	433	438

	320	321	372	373	424	425	526	527		628
5066	277	281	245	233	216	207	200	217	Fresh 21% KOH put in	212
65	390	397	372	353	307	283	257	250		247
64	390	393	349	325	283	252	257	SC		249

	629									
5066	223									
65	257									
64	253									

Calipers

	Original	After 1st Run	Before Endurance	426th run
5092	102-101-100	111-9.8	114 - 107	124-113
91	102-100-99	112 - 100	112 - 107	123-109
90	100-99-100	112- 96	112 - 104	125-113

Section II

5092 | 5 Nickels big Corrugations
91 | Corrugated 200 Atmos in 21%
90 | Chgd 15 hrs @ 200 Dischgd @ 100

5092	506	517	525	529	518	515	510	502		
91	510	521	531	533	527	518	517	517		
90	500	524	533	541	533	525	528	524		

Endurance

	61	62	113	114	165	166	217	218	269	270
5092	507	518	552	528	533	480	506	488	475	477
91	516	533	507	542	552	520	522	500	486	489
90	530	532	585	555	565	517	522	500	486	489

	321	322	373	374	425	426	527	528		629
5092	442	447	443	433	412	393	367	358	Fresh 21% KOH put in	345
91	450	453	462	455	429	412	433	422		378
90	450	453	443	438	416	400	417	412		360

	630									
5092	327									
91	358									
90	332									

Calipers

	Original	After 1st Run	Before Endurance	420th run
5095	99-99-98	111-100	109 - 109	123 - 114
94	101-98-100	108-100	110 -107	121 - 113
93	102-98-100	109 - 98	108 - 102	118 - 105

Section II

5095 | Dup of 5092 in 21%
94 | Except 250 Atmos
93 | Chgd 15 hrs @ 200 Dischgd 100

5095	482	519	532	538	531	523	528	520		
94	446	464	524	537	531	524	527	523		
93	467	512	537	544	537	531	532	528		

Endurance

	61	62	113	114	165	166	217	218	269	270
5095	522	533	577	547	554	521	517	504	487	492
94	524	527	567	545	555	525	512	503	492	497
93	528	538	592	557	588	547	533	513	498	508

	321	322	373	374	425	426	527	528		629
5095	467	450	467	463	447	431	418	410	Inadvertently Not put in	367
94	477	477	482	478	458	445	410	412		367
93	489	487	479	473	456	439	447	463		433

	630
5095	356
94	422
93	448

Calipers

	Original	After 1st Run	Before Endurance	426th run
5100	102-102-97	110-100	114-101	119-110
5099	98-97-97	107-96	109-106	120-113
98	98-96-97	107-92	104-103	120-112

Section II

5100 | Dup of 509 ✓ in 21%.
5099 | Except 300 atmos
98 | Chgd 15 hrs @ 200 Dischgd @ 100

5100	462	506	531	537	530	522	515	522		
5099	337	372	471	540	533	522	525	522		
98	475	521	537	542	533	527	528	525		

Endurance

	61	62	113	114	165	166	217	218	269	270
5100	519	523	577	548	562	520	525	509	490	500
5099	518	520	580	550	556	518	505	500	490	497
98	527	533	578	557	563	519	517	509	490	498

	321	322	373	374	425	426	527	528		629
5100	475	483	493	487	465	447	443	445	Break 21 days 110°F test in	450
5099	460	450	475	447	422	402	317	327		427
98	467	467	480	475	457	439	397	408		420

	630									
5100	450									
5099	447									
98	433									

Calipers

	Original	After 1st Run	Before Endurance
5177	93-103-105	104-103	109-108
76	97-108-105	103-108	111-110
75	94-105-104	105-106	107-107

Section # 6

5177 | 76 | 75 | 5 Reg Nickels run in 21% Solution of Sodium Hydroxide made from metallic sodium by JWA. Solution only to be used if free from Aluminia

chgd 15 hrs @ 200 Dischgd @ 100

5177	543	553	546	537	532	527
76	543	557	550	543	537	532
75	552	560	552	543	537	537

Endurance

	59	60	111	112	163	164	215	216	267	268
5177	462	493	433	500	355	433	308	317	242	217
76	462	485	433	500	373	393	345	353	282	262
75	485	517	493	527	438	448	395	414	367	341

	319	320	371	372	423	424	525	526		627
5177	217	200	187	180	179	167	163	160	Fresh 21% NaOH put in	150
76	233	217	187	183	178	171	160	163		153
75	315	292	232	232	212	203	200	200		198

CO

	628
5177	153
76	180
75	227

Calipers

	Original	After 1st Run	Before Endurance
5219	93-103-106	103-108	105-107
18	91-104-104	100-105	101-104
17	93-104-105	102-106	103-104

Section II

5

5219 18 17	5 Reg Ni in 21% containing 3 grammes of Crystals in each cell of Barium Hydrate

Chgd 15 hrs @ 200 Dischgd @ 100

5219	497	500	496	502	500					
18	499	515	497	497	500					
17	499	516	499	507	508					

Endurance

	58	59	110	111	162	163	214	215	266	267
5219	497	509	520	513	485	462	445	438	411	413
18	496	505	518	512	486	462	445	438	409	410
17	500	512	517	512	490	475	445	438	408	409

	318	319	370	371	422	423	524	525		626
5219	353	362	347	330	267	252	255	242	Broke 21% KOH put in	228
18	349	351	333	322	265	247	237	233		217
17	348	347	313	300	262	246	237	235		229

	627									
5219	243									
18	220									
17	243									

Calipers

	Original	After 1st Run	Before Endurance
5229	93-105-105	98-104	103-106
28	93-106-104	97-103	108-105
27	92-103-103	98-107	104-108

Section II

5229 | 5 Reg Ni in 21 %
28 | containing 1 gramme stannate
27 | of an alkali + 500 milligrams
aluminium (Aluminium was left out)
chgd 15 hrs @ 200 Dischgd @ 100

5229	509	518	514	517	514	514
28	507	518	515	514	513	513
27	507	517	516	514	512	512

Endurance

	59	60	111	112	163	164	215	216	267	268
5229	500	528	525	S.C.	492	467	445	442	421	422
28	502	508	523	517	486	467	433	427	409	412
27	500	515	533	520	S.C.	462	472	463	443	451

	319	320	371	372	423	424	525	526		627
5229	382	383	360	367	305	283	257	252	Fresh 21 % KOH put in	227
28	342	351	323	310	272	249	222	215		205
27	405	400	392	391	356	333	300	295		250

	628
5229	228
28	222
27	252

Calipers

	Original	After 1st Run	Before Endurance
5234	89-102-103	98-104	107-107
33	92-100-105	99-102	103-103
32	90-101-104	98-105	105-106

Section II

5234 | 5 Reg Ni 21% Containing
33 | 2 grammes Flouride of Potash
32 | or soda

Note- 400 Milligms K Flouride to cell
Chgd 15 hrs @ 200 Dischgd @ 100

5234	507	508	510	507	550	526	527			
33	507	509	512	517	541	525	525			
32	506	508	509	515	537	518	515			

Endurance

	60	61	112	113	164	165	216	217	268	269
5234	507	517	533	520	522	475	490	446	440	446
33	507	516	533	518	522	467	490	446	442	456
32	495	498	517	505	492	467	440	410	400	400

	320	321	372	373	424	425	526	527		628
5234	395	383	375	379	367	377	307	310	Fresh 21% of KOH put in	177
33	367	380	351	350	307	313	300	197		192
32	343	347	320	317	108	233	70	30		167

	629									
5234	210									
33	187									
32	212									

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Calipers

	Original	After 1st Run	Before Endurance
5238	93-104-104	97-103	105-108
37½	92-105-105	95-104	106-106
37	93-103-107	98-103	102-105

III

5238 | 5 Reg Ni 21% Solution from
37½ | Stick Potash which has
37 | been purified by Lime instead
of Barium

Chgd 15 hrs @ 200 Dischg @ 100

5238	515	525	523	525	500	497	507	507			
37½	510	520	517	518	492	487	497	497			
37	508	518	514	513	492	488	497	497			

Endurance

	61	62	113	114	165	166	217	218	269	270
5238	520	512	517	507	500	452	458	422	387	396
37½	577	500	518	507	500	452	467	433	387	396
37	519	508	522	512	510	455	478	433	418	433

	321	322	373	374	425	426	527	528		629	630
5238	330	327	300	300	267	267	231	239	Treated 21% NaOH Sol.	222	233
37½	343	352	300	300	267	267	217	220		222	233
37	367	367	353	357	310	317	247	242		238	253

5238											
37½											
37											

Calipers

	Original	After 1st Run	Before Endurance
5243	91-104-105	101-107	105-107
42	92-102-104	100-107	108-109
41	92-105-105	101-107	108-109

III

5243 ⎫ 5 Reg Ni 21% Containing 5 cc
42 ⎬ of Peroxide of Hydrogen
41 ⎭ Chgd 15 hrs @ 200 Dischgd @ 100

5243	507	506	518	533	512	517	513			
42	499	507	517	533	517	520	519			
41	490	498	512	523	505	507	508			

Endurance

	60	61	112	113	164	165	216	217	268	269
5243	423	519	540	500	527	467	473	433	442	433
42	525	512	533	493	521	460	467	421	433	423
41	525	508	528	490	517	450	458	422	428	404

	320	321	372	373	424	425	526	527		628
5243	386	387	367	355	343	317	198	195	Fresh 2 to New put in	223
42	358	352	319	290	267	233	50	57		120
41	347	352	333	317	321	297	217	208		212

CD

	629
5243	233
42	87
41	227

Calipers

	Original	After 1st Run	Before Endurance
5263	93-104-105		100-106
62	95-106-106		102-108
61	94-106-105		104-108

5263 | 5 Ni 2,1% which has been
62 | heated to 150 with 5 grammes of
61 | powdered green nickel hydroxide
for 5 or 6 hrs then solution cooled & poured off into cells.

Chgd 15 hrs @ 200 Dischg @ 100

5263	482	475	483	488	477					
62	500	494	500	508	498					
61	496	487	497	504	494					

Endurance

	58	59	110	111	162	163	214	215	266	267
5263	500	490	518	470	496	442	467	433	410	422
62	525	500	533	500	543	470	488	450	S.C.	423
61	521	570	528	500	521	467	490	445	428	433

	318	319	370	371	422	423	524	525		626
5263	375	382	353	348	310	313	215	223	[illegible]	178
62	367	382	333	333	281	267	243	223		133
61	383	382	350	342	317	312	263	252		183

	627									
5263	198									
62	143									
61	207									

Calipers

	Original	After 1st Run	Before Endurance
5325	96-108-105	104-110	107-108
24	98-102-102	94-103	95-102
23	90-107-105	95-105	103-105

III

5325 | 5 Rey Ni .21% made from Sump
24 | Potash and not treated with Barium
23 | Chgd 15 hrs @ 200 Dischgd @ 100

5325	467	491	473	483	479					
24	477	492	480	487	487					
23	477	499	477	491	487					

Endurance

	58	59	110	111	162	163	214	215	266	267
5325	577	497	508	473	492	442	437	400	397	385
24	494	483	505	472	497	447	457	420	419	422
23	528	498	527	490	509	454	448	410	392	408

	318	319	370	371	422	423	524	525		626
5325	350	353	318	300	320	297	231	212	Break in oil New oil put in	187
24	367	367	366	355	357	355	258	245		195
23	357	358	318	307	320	300	252	233		200

	627									
5325	207									
24	218									
23	223									

Calipers

	Original	After 1st Run	Before Endurance
5379	92-105-103	98-103	101-104
78	94-104-102	99-102	102-104
77	10-104-102	99-105	105-105

5379 | 5 Rey Ni 21% + 2 cc of
78 | Strong Ammonia in solution
77 | Chgd 15 hrs @ 200 Dischgd @ 100

5379	455	483	478
78	453	481	475
77	452	481	478

Endurance

	56	57	108	109	160	161	212	213	264	265
5379	563	528	552	512	547	480	488	445	452	447
78	533	519	545	512	542	496	510	467	483	489
77	525	515	533	500	551	491	500	455	50	433

	316	317	368	369	420	421	522	523		624
5379	383	386	359	348	361	333	287	252	Trickle 210% 70% put in	215
78	419	433	430	420	413	403	312	300		222
77	388	396	392	367	367	362	258	233		200

	625
5379	238
78	252
77	203

Calipers

	Original	After 1st Run	Before Endurance
5477	103-97-95		132-111
76	99-97-98		128-118
74	101-98-97		134-117

5477	5 Ni Big Corrugations Reversed									
76	Perforations 200 atmos									
74	Charged & Dischgd in 33%									

Charged 15 hrs @ 200 Dischgd @ 100

5477	452	507	567							
76	452	507	532							
74	452	495	539							

Endurance

	56	57	108	109	160	161	212	213	264	265
5477	578	567	528	533	452	480	363	382	292	323
76	532	577	495	548	492	500	333	400	318	361
74	528	595	495	533	418	451	381	378	306	333

	316	317	368	369	420	421	522	523	[illegible]	624
5477	265	267	245	238	233	220	227	232	[illegible]	160
76	288	292	267	267	263	267	253	267		200
74	297	286	253	267	252	250	220	217		155

	625									
5477	175									
76	207									
74	173									

(C)

Calipers

	Original	After 1st Run	Before Endurance
5481	99-97-95		123-108 -
80	101-95-97		122-112
79	99-96-92		125-109

5481 Dup of 5477 Except at
80 @ 250 Atmos
79 Chgd 15 hrs @ 200 Dischgd @ 100

54 81	478	520	545
80	440	498	527
79	447	473	522

Endurance

	56	57	108	109	160	161	212	213	264	265
5481	557	627	567	613	520	567	488	510	387	500
80	500	566	520	533	484	500	437	465	395	446
79	488	550	500	543	448	487	398	433	307	342

	316	317	368	369	420	421	522	523		624
5481	363	354	300	300	297	290	300	290	Fresh [illegible] Roll [illegible]	257
80	365	353	295	292	240	281	277	252		213
79	300	292	267	260	258	248	232	240		188

	625
5481	270
80	245
79	198

Calipers

	Original	After 1st Run	Before Endurance	
5486	96-92-92		116-101	
85	94-92-90		113-105	
84	95-92-95		118-106	

5486 | Dup of 5477
85 | Except @ 300 Atmos
84 | Chgd 15 hrs @ 200 Dischgd @ 100

5486	456	497	530								
85	460	512	523								
84	447	497	527								

Endurance

	56	57	108	109	160	161	212	213	264	265
5486	525	553	530	550	515	523	513	485	427	477
85	547	632	528	613	495	558	467	467	477	433
84	518	532	523	533	510	520	517	500	451	SC.

	316	317	368	369	420	421	522	523		624
5486	413	411	348	350	380	324	265	297	Inside 210 of NOW put in	278
85	337	327	285	288	282	267	217	238		208
84	421	433	367	392	352	367	300	320		220

CO

	625									
5486	308									
85	228									
84	300									

Calipers

	Original	After 1st Run	Before Endurance
5491	92-105-102	102-106	105-105
90	96-108-105	104-107	107-103
89	92-104-104	99-105	106-105

491 | 5 Reg Ni 21% containing
90 | 3 grms Borax
89 | Chg'd 15 hrs @ 200 Dischgd @ 100

5491	477	493	503	510	505					
90	467	493	487	500	495					
89	450	490	496	495	490					

Endurance

	58	59	110	111	162	163	214	215	266	267
5491	533	522	545	512	537	487	487	448	467	462
90	535	574	542	500	527	482	482	444	449	445
89	528	510	540	500	Se.	478	467	433	433	433

	318	319	370	371	422	423	524	525		626
5491	392	400	383	367	364	350	265	247	Break 2-10 20% Apr 2nd	225
90	383	391	373	363	360	351	283	256		233
89	367	367	347	325	320	296	233	222		197

	627									
5491	237									
90	250									
89	210									

Calipers

	Original	After 1st Run	Before Endurance
5522	93-105-103	102-105	104-103
21	91-103-104	100-104	101-103
20	91-104-104	101-106	103-107

522 | 5 Rey Ni 21% containing
21 | 3 grammes Carbonate Strontia
20 | in each cell after assembling
rested 10 hrs.
Chgd 15 hrs @ 200 Dischgd @ 100

5522	484	485								
21	484	488								
20	487	495								

Endurance

	55	56	107	108	159	160	211	212	263	264
5522	533	518	545	507	533	482	492	447	415	462
21	542	523	542	510	533	482	483	450	467	462
20	533	522	547	510	542	483	483	440	453	455

	315	316	367	368	419	420	521	522		623
5522	382	385	367	347	364	333	273	248	Fresh 21% KOH put in	220
21	390	400	377	364	364	371	287	265		225
20	391	397	388	364	367	348	387	260		233

	624									
5522	243									
21	245									
20	252									

Calipers

	Original	After 1st Run	Before Endurance
5526	92-104-105	103-107	105-108
24	94-103-106	102-107	104-106
23	90-105-105	100-106	98-104

5526 | 5 Reg Ni 21% Containing 3 grammes
24 | Carbonate Cerium Each Cell
23 | After assembling rested 10 hrs.
Chgd 15 hrs @ 200 Dischgd @ 100

5526	490	486								
24	485	491								
23	485	491								

Endurance

	55	56	107	108	159	160	211	212	463	264
5526	542	510	540	500	533	481	475	443	450	453
24	527	513	525	488	508	467	472	433	433	433
23	522	505	500	483	497	452	447	411	413	419

	315	316	367	368	419	420	521	522		623
5526	382	388	386	363	355	333	232	222	Break 2-10-13 20% [illegible]	182
24	367	379	377	363	343	322	232	212		183
23	362	367	352	333	317	295	190	192		115

	624									
5526	200									
24	203									
23	132									

Calipers

	Original	After 1st Run	Before Endurance
5562	93-104-104	102-106	104-105
61	92-103-104	102-104	103-104
60	93-106-105	98-107	102-105

562 | 5 Rey Ni soaked 6 hrs in half
61 | pint grain Alcohol on hot
60 | plate @ about 125°F Then
Assembled with irons in 21%
chg'd 15 hrs @ 200 Dischg'd @ 100

5562	467	482	494	498	497	503	508
61	472	490	495	500	500	507	508
60	464	477	494	493	496	500	505

Endurance

	60	61	112	113	164	165	216	217	268	269
5562	547	523	547	513	542	491	500	462	465	487
61	552	529	550	517	521	490	500	465	466	487
60	547	522	652	512	550	500	500	462	467	488

	320	321	372	373	424	425	526	527		628
5562	400	410	405	389	383	352	150	167	Fresh 21% KOH put in	218
61	390	394	387	362	378	347	258	248		212
60	407	415	423	410	400	382	317	313		238

	629
5562	237
61	230
60	260

Calipers

	Original	After 1st Run	Before Endurance
5582	94-105-104	100-105	101-105
81	94-106-104	101-102	102-107
80	96-102-108	104-108	106-109

5582 | 5 Reg Ni 21% containing
81 | 2 grams Antimoniate of Potash
80 | or sodium (400 milg each cell).
Chg'd 15 hrs @ 200 Dischg'd @ 10.0

5582	463	407	498	487	502					
81	458	507	497	483	500					
80	463	504	492	480	492					

Endurance

	58	59	110	111	162	163	214	215	266	267
5582	537	514	525	500	500	459	447	420	385	400
81	531	513	542	500	523	473	470	440	405	433
80	547	513	545	508	542	482	482	447	413	444

	318	319	370	371	422	423	524	525		626
5582	347	349	333	315	333	293	263	242	Fresh 21% KOH put in	207
81	367	367	358	345	353	319	276	253		223
80	367	377	352	303	346	318	282	253		195

	627									
5582	233									
81	242									
80	227									

Calipers

	Original	After 1st Run	Before Endurance
5585	93-103-103	100-102	103-105
84	90-100-99	99-100	101-102
83	90-101-99	95-100	100-102

5585 | 5 Rey Ni 21% with 5 grammes
84 | powdered Lead Glass through
83 | 150 mesh or nearest thereto made
by Dalby (5 grammes to each cell)
Chgd 15 hrs @ 200 Dischgd @ 100

5585	477	485	500	496
84	467	480	491	488
83	467	482	483	495

Endurance

	57	58	109	110	161	162	213	214	265	266
5585	538	517	557	500	500	450	450	400	367	348
84	503	482	500	457	442	400	377	345	300	257
83	532	510	550	500	507	460	457	390	358	314

	317	318	369	370	421	422	523	524		625
5585	184	182	77	90	23	27	15	15	Friday 7/2 [illegible] Holiday [illegible]	2
84	122	119	40	38	35	13	3	3		0
83	172	178	78	73	65	20	10	6		0

	626
5585	2
84	0
83	0

Calipers

	Original	After 1st Run	Before Endurance
5591	97-107-108	103-106	107-107
90	96-107-106	103-106	107-106
89	96-105-106	103-106	103-106

5591 | 5 Ni in 21% Containing 1 gramme
90 | Selenate of Potash or Soda per
89 | cell

Chgd 15 hrs @ 200 Dischgd @ 100

5591	418	475	474	473
90	493	492	482	485
89	442	487	481	478

Endurance

	57	58	109	110	161	162	213	214	265	266
5591	552	515	520	482	483	453	465	422	387	377
90	592	541	550	508	514	488	493	410	433	400
89	582	527	547	500	513	479	493	440	438	428

	317	318	369	370	421	422	523	524		625
5591	323	315	253	233	265	228	125	148	Fresh 21% KOH put in	133
90	362	354	267	252	287	257	125	183		200
89	376	381	273	300	285	237	123	160		200

	626
5591	143
90	207
89	206

Calipers

	Original	After 1st Run	Before Endurance
5595	95-103-106	100-107	102-103
94	97-107-104	102-107	103-107
93	96-105-107	101-104	104-105

595 | 5 Rey Ni 21% Containing
94 | 1 gramme Tellurate of Potassium
93 | or sodium per cell
Chg'd 15 hrs @ 200 Dischgd @ 100

5595	464	460	459	458
94	468	467	466	463
93	462	456	452	453

Endurance

	57	58	109	110	161	162	213	214	265	266
5595	530	500	500	473	473	447	490	414	387	463
94	557	515	507	483	467	465	465	428	400	393
93	537	508	497	480	452	451	460	422	383	377

	317	318	369	370	421	422	523	524		625
5595	325	320	233	210	167	143	130	137	Fresh 20% KOH Added	53
94	333	328	233	210	187	157	145	143		100
93	319	312	233	200	165	133	145	137		80

	626
5595	48
94	98
93	95

Calipers.

	Original	After 1st Run	Before Endurance
5610	96-106-105	103-105	104-105
09	92-104-106	98-105	102-106
08	94-106-104	103-107	105-106

5610 | 5 Rey Ni 21% with 2 grams
09 | Oxalic acid
08 | Chgd 15 hrs @ 200 Dischgd @ 100
(400 mily Each Cell)

5610	460	502	488	481						
09	460	507	492	482						
08	460	500	487	482						

Endurance

	57	58	109	110	161	162	213	214	265	266
5610	559	523	543	507	515	475	490	451	442	418
09	552	523	533	507	515	480	500	464	462	446
08	533	515	530	500	502	473	497	452	448	435

	317	318	369	370	421	422	523	524		625
5610	377	380	347	312	340	295	S.C.	187	Trouble 2½ hrs [illegible]	152
09	400	412	400	343	460	322	257	255		200
08	387	397	392	350	367	325	253	227		207

	626									
5610	186									
09	210									
08	232									

Calipers

	Original	After 1st Run	Before Endurance
5616	95-107-105	105-108	101-106
15	90-101-105	100-105	101-105
14	95-106-105	103-108	106-107

5616 | 5 Rey Ni 21% containing
15 | 3 grammes Formate of Potash or
14 | Soda

Chgd 15 hrs @ 200 Dischgd @ 400
600 Mily Each Cell

5616	465	507	503	500
15	459	498	495	497
14	465	509	505	500

Endurance

	57	58	109	110	161	162	213	214	265	266
5616	549	527	533	508	516	489	514	467	462	445
15	558	532	533	508	516	488	498	467	450	433
14	558	533	543	513	526	482	498	467	462	447

	317	318	369	370	421	422	523	524		625
5616	400	405	400	367	367	322	233	222	[illegible]	193
15	388	392	392	350	367	325	253	253		260
14	389	392	367	333	367	318	277	260		222

	626
5616	188
15	254
14	215

Calipers

	Original	After 1st Run	Before Endurance
5620	90-101-98	94-100	96-100
19	94-105-104	102-107	104-106
18	93-106-106	101-105	104-106

5620 | 5 Rey Ni 21% with 3 grammes
19 | Succinic acid per cell
18 | Chgd 15 hrs @ 200 Dischgd @ 100

5620	483	476	482	481
19	484	485	487	486
18	483	488	489	490

Endurance

	57	58	109	110	161	162	213	214	265	266
5620	S.C.	492	525	490	500	465	485	437	433	400
19	559	531	553	517	530	492	525	480	482	457
18	567	570	550	517	523	495	500	472	462	477

	317	318	369	370	421	422	523	524		625
5620	367	342	400	333	367	320	262	259	Fresh 21% KOH put in	217
19	412	407	425	398	375	312	250	233		113
18	400	393	386	333	360	305	252	253		270

	626
5620	226
19	163
18	238

Calipers

	Original	After 1st Run	Before Endurance
5696	94-105-101	100-105	103-106
95	91-106-104	99-105	102-105
94	94-104-106	101-106	104-108

5696 | 5 Reg Ni 21% Containing
95 | 1 grm clear mica powdered
94 | up to 1/8 + smaller to each cell
Chgd. 15 hrs @ 200 Dischgd @ 100

5696	470	482	478	489	490	489				
95	467	480	485	487	490	490				
94	464	478	485	488	490	491				

Endurance

	69	60	111	112	163	164	215	216	267	268
5696	542	513	528	495	502	473	492	443	442	425
95	518	505	515	485	496	458	475	437	433	412
94	538	510	530	498	516	473	498	448	444	433

	319	320	371	372	423	424	525	526		627
5696	388	378	367	343	367	330	178	200	Break 7-1-20 Held Apr [illegible]	167
95	378	367	359	s.c.	343	297	230	223		157
94	410	398	400	383	400	353	300	267		193

	628									
5696	185									
95	190									
94	193									

Calipers

	Original	After 1st Run	Before Endurance
5727	99-95-97		109-106
25	100-98-95		115-105
24	100-96-97		114-104

27 | 5 Nickel Big Corrugations 300 Atmos
25 | Soaked 6 hrs in grain alcohol
24 | then dried 2 hrs on heater
Run in 21% containing 2 grms
per cell of Hyposulphite of soda
or Potash
Chgd 15 hrs @ 200 Dischgd @ 100

	59									
5727	0	433	429	506	511	498				
25	0	479	502	506	507	485				
24	0	456	493	571	574	499				

Endurance

	59	60	111	112	163	164	215	216	267	268
5727	555	552	567	543	555	550	560	550	525	513
25	598	575	567	533	561	523	558	520	507	510
24	605	552	570	542	573	533	582	523	542	523

	319	320	371	372	423	424	525	526		627
5727	482	480	478	467	467	443	356	333	Fresh 21% Soln put in	357
25	476	475	477	453	440	445	423	412		423
24	487	487	493	477	473	467	442	443		433

	628									
5727	353									
25	414									
24	414									

Calipers

	Original	After 1st Run	Before Endurance
5835	92-104-105	104-107	105-105
34	95-106-107	102-103	105-108
31	93-105-106	103-108	104-107

5835 | 5 Reg Ni 21% Containing
34 | 3 grammes Carbonate Ammonia
31 | in each cell

Chgd 15 hrs @ 200 Dischgd @ 100

5835	275	383	433	450
34	265	383	430	443
31	289	417	458	452

Endurance

	57	58	109	110	161	162	213	214	265	266
5835	542	512	533	498	520	483	493	457	482	452
34	558	527	533	512	532	491	443	447	493	467
31	551	522	543	512	527	487	500	458	482	452

	317	318	369	370	421	422	523	524		625
5835	421	410	423	400	385	363	263	257	Break 210% 13075 put in	267
34	427	412	421	397	400	352	253	253		192
31	421	412	420	400	408	367	277	258		252

	626
5835	233
34	200
31	233

Calipers

	Original	After 1st Run	Before Endurance
5860	93-106-104	102-105	103-105
59	96-107-100	108-110	104-106
58	93-103-106	103-105	107-103

5860 | 5 Reg Ni 21% Containing
59 | 2 grammes freshly precipitated
58 | carbonate of Magnesia - in each cell
chgd 15 hrs @ 200 Dischgd @ 100

5860	467	482	476	476						
59	462	475	473	473						
58	457	470	470	468						

Endurance

	57	58	109	110	161	162	213	214	265	266
5860	549	512	530	493	497	458	477	437	433	410
59	553	512	533	497	513	473	492	453	443	427
58	546	510	543	493	507	467	493	440	443	427

	317	318	369	370	421	422	523	524		625
5860	386	367	353	327	338	297	240	233	Fresh 21% KOH put in	167
59	395	382	378	317	362	328	283	300		183
58	397	383	378	348	358	327	300	300		290

	626									
5860	170									
59	200									
58	254									

Calipers

	Original	After 1st Run	Before Endurance
5865	92-104-104	98-105	101-105
64	89-98-102	96-100	99-100
63	91-103-102	98-103	100-103

5865 | 5 Ni 21% Containing
64 | 2 gms Kaolin Each Cell
63 | Chgd 15 hrs @ 200 Dischgd @ 100

5865	493	487	491	495	4					
64	493	488	489	494						
63	493	488	486	492						

Endurance

	57	58	109	110	161	162	213	214	265	266
5865	486	460	343	317	200	233	167	147	100	100
64	492	457	348	324	248	222	183	167	115	107
63	509	473	395	497	291	300	212	196	132	123

	317	318	369	370	421	422	523	524		625
5865	80	85	63	47	33	28	7	7	Fresh 21.0% KOH put in	0
64	90	93	63	47	42	30	8	8		8
63	95	100	67	47	45	73	12	12		5

	626									
5865	0									
64	0									
63	3									

Calipers

	Original	After 1st Run	Before Endurance
5915	92-104-106	100-105	99-103
14	94-107-104	105-107	101-106
13	92-99-105	98-100	96-98

5915 5 Ni 21% Containing 3 gms freshly precipitated Carbonate
4 of Calcium Each cell
3 Chgd 15 hrs @ 200 Dischgd @ 100

5915	[illegible]03	502								
14	498	475								
13	493	486								

Endurance

	55	56	107	108	159	160	211	212	263	264
5915	[illegible]43	548	572	530	542	510	543	491	467	450
14	577	539	555	520	532	499	525	472	447	430
13	565	532	553	518	542	500	528	485	482	450

	315	316	367	368	419	420	521	522		623
5915	367	342	347	310	340	297	200	58	Added 2100 KOH Apr 11	182
14	366	333	333	300	358	300	267	255		123
13	367	360	347	312	373	320	257	257		180

	624									
5915	225									
14	125									
13	215									

Calipers

	Original	After 1st Run	Before Endurance
5969	93· 103-104	100-105	105-105
68	92· 101-101	101-102	105-104
67	93· 104-104	101-104	103-104

5969 | 5 Rey Ni actually boiled 1 hr
68 | in 1 quart of 1% KOH
67 | Run in 21%.

Chgd 15 hrs @ 200 Dischgd @ 100

5969	473	488	500	497
68	289	490	508	497
67	464	490	498	492

Endurance

	57	58	109	110	161	162	213	214	265	266
5969	562	532	542	515	527	492	493	477	445	430
68	533	517	542	573	532	492	520	485	492	482
67	573	532	542	510	527	487	498	467	445	445

	317	318	369	370	421	422	523	524		625
5969	387	365	360	200	373	317	297	263	Fresh 21% KOH put in	183
68	447	441	470	437	440	420	388	380		350
67	387	365	358	333	367	312	285	188		223

	626
5969	138
68	320
67	333

Calipers

	Original	After 1st Run	Before Endurance	421st ru
5993	88-99-101	95-99	97-100	113-10
92	92-102-101	99-104	101-104	118-11
91	94-103-102	101-102	103-105	115-110

5993 | 5 Ni 21% Containing
92 | 2.5 Miligrm Sulphide of Potassium
91 | in each cell
Chgd. 15 hrs @ 200 Dischgd @ 100

5993	480	490	516								
92	473	494	500								
91	498	495	500								

Endurance

	56	57	108	109	160	161	212	213	264	265
5993	557	532	545	522	540	496	513	492	487	488
92	532	532	542	515	542	495	520	495	492	490
91	553	532	553	528	550	492	542	510	503	510

	316	317	368	369	420	421	522	523		624
5993	462	452	443	438	458	430	378	367	Break 7.10 KOH put in	350
92	461	456	446	417	410	430	395	393		358
91	472	477	483	453	473	452	415	410		392

	625									
5993	310									
92	352									
91	367									

Calipers

	Original	After 1st Run	Before Endurance	421st run
5996	90-102-100	96-104	98-102	114-109
95	94-103-102	101-105	102-105	117-113
94	93-100-103	100-101	102-102	117-111

5996 | 5 Ni 21% Containing
95 | 50 Miligrams Sulphide Potassium
94 | in each cell
Chgd 15 hrs @ 200 Dischgd @ 100

5996	477	500	512
95	477	500	515
94	467	475	490

Endurance

	56	57	108	109	160	161	212	213	264	265
5996	561	529	553	528	550	526	522	493	498	493
95	567	545	552	527	560	526	542	468	507	487
94	531	528	525	500	524	498	500	492	485	462

	316	317	368	369	420	421	522	523		624
5196	462	443	483	483	457	429	428	387	Trouble at Test Plant	363
95	473	454	493	497	462	453	423	413		331
94	450	428	460	470	433	430	383	383		315

	625
5996	342
95	327
94	285

Calipers.

	Original	After 1st Run	Before Endurance	421st run
6001	90-100-99	96-102	103-103	112-110
00	92-102-100	98-100	101-102	118-111
5999	93-103-104	99-103	102-107	119-118

6001 / 00 / 5999 | 5 Ni 21% Containing 125 Miligrms Sulphide of Potassium in each cell
chgd 15 hrs. @ 200. Dischgd @ 100.

6001	484	493	492								
00	487	497	500								
5999	495	495	498								

Endurance

	56	57	108	109	160	161	212	213	264	265
6001	531	527	533	512	531	508	498	472	462	452
00	533	527	542	515	533	514	507	490	485	480
5999	548	533	550	527	548	522	517	492	489	487

	316	317	368	369	420	421	522	523		624
6001	422	390	133	183	washed changed 0 KOH	307	133	333	Fresh 21% KOH put in	323
00	453	433	460	473	420	424	417	410		392
5999	462	439	477	490	433	438	423	405		356

	625									
6001	288									
00	363									
5999	348									

Calipers

	Original	After 1st Run	Before Endurance	421st run
6006	94-102-104	101-103	102-103	123-115
05	92-101-104	95-100	103-104	115-114
04	94-100-106	99-99	105-103	120-11

6006 | 5 Ni 21% Containing
05 | 250 Miligms Sulphide of
04 | Potassium in each cell
Chgd 15 hrs @ 200 Dischgd @ 100

6006	482	482	487								
05	483	498	500								
04	482	483	492								

Endurance

	56	57	108	109	160	161	212	213	264	265
6006	527	527	533	508	528	507	507	483	478	478
05	548	532	544	520	545	512	513	487	485	479
04	533	527	533	511	531	507	497	464	479	477

	316	317	368	369	420	421	522	523		624
6006	452	432	483	483	462	450	450	442	Fresh 21% KOH put in	433
05	449	428	467	477	437	428	392	382		367
04	449	427	467	467	428	422	392	382		359

	625									
6006	412									
05	338									
04	333									

Calipers

	Original	After 1st Run	Before Endurance	421st am
6013	92-103-102	101-103	105-105	124-114
12	94-104-105	101-105	107-108	117-113
11	90-102-101	97-102	102-105	115-114

6.13 | 5 Ni 21% Containing
12 | 500 Miligums Sulphide of
11 | Potassium in each cell
Chgd 15 hrs @ 200 Dischgd @ 100

6013	413	493	497
12	467	492	497
11	480	492	493

Endurance

	56	57	108	109	160	161	212	213	264	265
6013	547	532	543	516	531	503	493	470	467	460
12	567	532	546	508	523	490	492	460	456	437
11	523	527	526	500	523	498	490	462	471	462

	316	317	368	369	420	421	522	523		624
6013	426	379	433	425	390	360	315	287	Fresh 21% KOH put in	287
12	467	386	433	400	343	278	246	212		227
11	432	411	467	478	437	427	407	400		350

	625
6013	261
12	212
11	342

Calipers

	Original	After 1st Run	Before Endurance
6018	93-107-104	99-106	101-103
17	93-105-101	100-105	100-102
16	93-102-106	100-104	100-101

6018 | 5 Rey Ni 21% Containing
17 | 2 grammes Succinic Acid
16 | in each cell.
Chg.d 15 hrs @ 200 Dischgd @ 100

6018	432	464								
17	427	447								
16	434	469								

Endurance

	55	56	107	108	159	160	211	212	263	264
6018	527	500	533	492	517	488	483	442	433	437
17	517	492	522	480	497	467	445	400	370	350
16	533	512	533	493	509	475	457	428	429	416

	315	316	367	368	419	420	521	522		624
6018	390	369	362	350	323	233	88	90	Fresh 21% KOH put in	41
17	317	310	280	278	150	168	33	50		28
16	340	333	267	267	120	127	27	38		16

	625									
6018	53									
17	36									
16	33									

Calipers

	Original	After 1st Run	Before Endurance
6038	92-103-103	97-102	101-104
37	94-105-103	100-105	102-104
36	92-106-105	98-106	102-106

6038 | 5 Reg Ni 21% Containing
37 | 2 grammes Barium Sulphite
36 | in each cell.

Chgd 15 hrs @ 200 Dischgd @ 100

6038	478	483	504	500						
37	478	483	499	497						
36	478	483	498	497						

Endurance

	57	58	109	110	161	162	213	214	265	266
6038	567	532	552	570	519	492	485	458	455	440
37	561	528	551	507	519	492	483	453	455	442
36	552	524	551	511	527	492	486	453	456	438

	317	318	369	370	421	422	523	524		625
6038	400	384	400	400	348	320	277	258	Break - Holiday Not put in	273
37	397	377	396	397	344	322	292	263		294
36	383	380	397	392	347	322	278	258		288

	626									
6038	232									
37	252									
36	249									

Calipers

	Original	After 1st Run	Before Endurance
6053	93-103-103	99-103	104-104
52	93-103-102	100-103	103-105
51	94-103-105	102-106	105-108

6053 | 52 | 51 | 5 Ni 21%oo Containing 10 Milgs Flour of Sulphur in bottom of cell

Chgd 15 hrs @ 200 Dischgd @ 100

6053	480	482	503	500	495	495				
52	473	480	497	492	497	495				
51	483	485	570	505	497	495				

Endurance

	59	60	111	112	163	164	215	216	267	268
6053	133	0	531	477	450	457	440	425	408	400
52	537	517	531	494	511	480	460	412	427	413
51	567	532	560	513	531	495	488	458	455	443

	319	320	371	372	423	424	525	526		627
6053	343	323	300	277	263	233	262	247	Break 2 1/2 d.o. [illegible]	S.C.
52	393	333	352	73	308	S.C.	253	230		173
51	417	367	361	333	315	285	287	280		297

	628									
6053	133									
52	200									
51	257									

Calipers

	Original	After 1st Run	Before Endurance
6056	92-102-103	98-102	105-104
55	93-103-103	100-103	106-106
54	94-102-105	103-102	105-104

6056 | 5 Ni 21% Containing
55 | 30 miligms Flour of Sulphur
54 | in bottom of cells.

Chgd 15 hrs @ 200 Dischgd @ 100

6056	474	487	492	508						
55	478	493	492	510						
54	473	487	483	500						

Endurance

	57	58	109	110	161	162	213	214	265	266
6056	553	531	552	512	533	497	482	447	437	424
55	563	533	556	513	527	492	467	447	428	427
54	545	524	538	507	521	492	467	450	437	433

	317	318	369	370	421	422	523	524		625
6056	384	349	355	397	313	282	245	233	Inside 21% KOH put in	256
55	373	333	333	333	307	278	247	245		245
54	383	347	361	353	318	282	253	247		262

	626									
6056	232									
55	197									
54	225									

Calipers

	Original	After 1st Run	Before Endurance
6063	94-103-103	99-104	104-104
62	92-99-102	98-100	101-103
61	93-103-102	99-104	104-106

6063 | 5 Ni 21% Containing
62 | 60 Miligrms Flour of Sulphur
61 | in bottom of each cell
Chgd 115 hrs @ 200 Dischgd @ 100

6063	472	487	487	500							
62	467	486	485	497							
61	467	492	493	500							

Endurance

	57	58	109	110	161	162	213	214	265	266
6063	567	530	550	506	532	492	472	435	438	425
62	550	522	537	497	521	482	467	430	428	416
61	544	522	532	496	512	478	467	428	427	417

	317	318	369	370	421	422	523	524		625	626
6063	393	357	382	348	323	280	253	248	Fresh 21% KOH put in	195	120
62	377	346	367	357	325	285	244	228		252	227
61	383	345	355	348	315	280	245	233		118	125

6063											
62											
61											

Calipers

	Original	After 1st Run	Before Endurance
6066	92-102-102	98-102	100-103
65	92-104-103	99-102	104-104
64	91-100-104	101-105	105-107

6066 / 65 / 64 | 5 Ni 21% containing 120 miligms Flour of Sulphur in bottom of cells.

Chgd 15 hrs @ 200 Dischgd @ 100

6066	467	489	480	498
65	473	493	490	508
64	473	492	490	505

Endurance

	57	58	109	110	161	162	213	214	265	266
6066	552	522	541	498	508	477	460	423	438	418
65	544	529	525	197	S.C.	525	477	433	S.C.	400
64	567	533	543	506	527	490	472	433	433	418

	317	318	369	370	421	422	523	524		625
6066	332	348	382	367	350	300	277	248	Break 2 1070 KOH fresh in	293
65	393	347	385	367	350	320	270	270		328
64	390	353	367	357	333	310	277	259		326

	626
6066	247
65	278
64	252

Calipers

	Original	After 1st Run	Before Endurance	422nd run
7070	92-104-104	101-105	103-106	118-11
69	92-100-104	102-102	104-104	120-11
68	90- 101-101	100-103	101-105	112-11

7070 | 5 Reg Ni 21% Containing
69 | in each cell 100 Miligrms
68 | of precipitated Ferric hydroxide
Chgd 15 hrs @ 200 Dischgd @ 100

7070	487	487	495	500	500					
69	488	486	495	500	500					
68	489	485	491	500	500					

Endurance

	58	59	110	111	162	163	214	215	266	267
7070	570	539	566	523	552	521	520	490	504	500
69	556	533	556	516	546	515	517	482	479	485
68	544	525	542	509	530	497	485	463	477	467

	318	319	370	371	422	423	524	525		626
7070	462	442	495	483	453	447	428	423	Fresh 21% KOH put in	387
69	447	431	467	463	438	427	405	395		398
68	432	411	456	450	398	388	352	333		330

	627									
7070	357									
69	318									
68	300									

Calipers

	Original	After 1st Run	Before Endurance	422nd — m
7077	91-102-101	100-104	101-105	118-114
76	90-100-102	98-103	104-102	113-110
75	92-102-106	101-107	102-104	116-113

7077 | 5 Reg Ni 21% containing
76 | 100 miligrams Ferrous hydroxide
75 | in each cell.

Use Ferrous Sulphate in solution with minimum amount of water to dissolve it + pour into cells making the precipitate in the cell The Sulphuric will do no harm

Chgd 15 hrs @ 200 Dischgd @ 100

7077	477	477	497	500						
76	478	491	500	520						
75	462	478	497	497						

	57	58	109	110	161	162	213	214	265	266
7077	532	522	532	500	525	491	492	456	472	467
76	562	539	561	530	562	525	537	500	510	500
75	[illegible]	495	533	497	521	483	485	450	472	530

	317	318	369	370	421	422	523	524	Failed 210th 7077 put in	675	626
7077	438	412	456	447	413	400	352	333		330	300
76	466	443	487	483	458	447	425	403		407	367
75	430	408	455	450	425	412	428	390		397	367

Calipers

	Original	After 1st Run	Before Endurance	420th run
7168	92-104-105	99-105	102-105	114-111
67	91-103-103	99-103	100-104	116-117
66	93-104-105	101-106	103-106	113-11

7168 | 5 Reg Ni 21% Containing
67 | 250 Miligms Antimonate of
66 | Potassium or Soda in each cell
Chgd. 15 hrs @ 200 Dischgd @ 100

7168	483	489									
67	484	490									
66	484	490									

Endurance

	55	56	107	108	159	160	211	212	263	264
7168	547	529	545	510	543	509	510	430	483	472
67	554	529	561	517	567	520	530	483	505	487
66	532	515	533	499	543	500	502	467	483	478

	315	316	367	368	419	420	521	522		623
7168	448	423	473	477	460	430	428	409	Fresh 21% KOH put in	408
67	465	442	494	483	355	446	428	418		382
66	453	431	486	477	433	423	252	346		347

	624									
7168	395									
67	362									
66	338									

Calipers

	Original	After 1st Run	Before Endurance
7175	93-105-106	100-106	104-105
74	90-100-101	97-102	99-102
72	90-102-100	97-102	102-103

7175 | 5 Reg Ni 21% Containing
74 | 500 miligrms Antimonate of
72 | Potash or soda in each cell
Chgd 15 hrs @ 200 Dischg @ 100

7175	486	508									
74	482	490									
72	482	490									

Endurance

	55	56	107	108	159	160	211	212	263	264
7175	572	537	539	512	526	497	498	465	475	467
74	546	522	537	506	532	493	493	463	477	467
72	546	529	550	512	546	510	511	485	488	482

	315	316	367	368	419	420	521	522		623
7175	437	410	420	433	362	318	197	183	Fresh 21% KOH put in	268
74	438	415	455	445	413	400	377	360		329
72	461	442	487	487	453	443	428	420		387

	624									
7175	223									
74	313									
72	373									

Section #III Index

Acid Oxalic 5610-08
" Succinic 5620-18, 6018-16
Alcohol hot. 5562-60
" + Hyposulphite soda 5727-24
Ammonia 5379-77
" Carbonate 5[illegible]-31

Barium Sulphite 6038-36
Borax 5491-89

Calcium Carbonate 5915-13
Cerium " 5526-23
Corrugations 5 to inch 5477-74
5451-79, 5486-84

Ferric Hydroxide 7070-68
Ferrous " 7077-75

Glass Powd Lead 5585-83

Hydrogen Peroxide 5243-41

Kaolin 5865-63

Magnesium Carbonate 5860-58
Mica 5696-94

Nickels Boiled in 1%
KOH 5969-67
Nickels Green Hydrate hot
21% 5263-61

Potassium Antimonate 5582-
7168-66. 7175-72
" Formate 5616-14
" Sumpe with out Barium
treatment 5325-23
" Selenate 5591-89
" Stick by Sime 5238-37
" Sulphide 5993-91. 5996-94
6001-5999. 6006-04. 6013-11
" Tellurate 5595-93

Strontium Carbonate 5522-20
Sulphur 6053-51. 6056-54
6063-61. 6066-64

Additions to Section II

The following cells have been added to Section II

25 B a picket from old endurance cell # 25 B after 501 runs treated as per # 2271 J.W.A.

Endurance

	568	569	620	621	672	673	774	775		876
25 B	283	298	262	267	217	240	163	172	Broke 2 of 6 130% Aut in	229

	877
25 B	251

Bad curve.

9343.- Pocket from old cell #27
treated according to #2285 JWA
Run reg in 21% KOH

9343										

	59	60	111	112	163	164	265	266		
9343	231	253	285	290	203	217	177	175	Fresh KOH	21% put in

	367	368
9343	245	263

9304 Pocket from old Endurance cell #27 treated as per #2281 J.W.A.

9304	0	177	245	296	332	378	388	402	410	417
9304	422									
				Endurance						
	62	63	114	115	166	167	268	269		
9304	283	332	307	319	203	217	183	187	Fresh H_2O +	21% spirit in
	370	371								
9304	250	272								

9302 | Three reg Nis 3.2 Cake
01 | crimped @ 100 Corrug @ 150
00 | Treated as per #2282 J.W.A.

9302	assembled wrong	433	500	505	512	518	518	522	522	
01	520	532	532	540	542	548	552	553	556	
00	assembled wrong	327	500	501	506	512	511	513	513	

9302	523	523								
01	552	547								
00	518	512								

Endurance

	62	63	114	115	166	167	268	269		
9302	545	543	547	542	520	553	500	515	Triple 210 mit	10 KOH in
01	SC	577	568	562	550	573	458	500		
00	532	528	532	533	530	532	517	505		

	370	371								
9302	528	538								
01	573	577								
00	553	547								

Calipers

	Original	After 1st Run	Before Endurance
8550	90-101-99		
49	94-103-103		
48	93-104-104		

8550 Group of 3 reg. Nis in clamps
49 for Endurance 3.2 gm in 33%
48

						@500				
8550	467	633	737	706	736	308	333	727	722	736
49	477	587	673	642	675	267	292	658	653	655
48	497	612	700	662	708	292	300	687	689	692

8550	728	706	732	730						
49	667	643	669	668						
48	707	674	697	704						

Endurance

	65	66	117	118	169	170	271	272		373
8550	650	SC	483	570	510	550	390	383	Fresh 21% H_2O_2 put in	300
49	526	SC	444	545	400	400	210	203		190
48	700	667	552	660	583	588	333	323		258

	374									
8550	313									
49	187									
48	260									

Calipers

	Original	after 1st Run	Before Endurance
8547	90-101-100		
46	89-100-101		
45	91-101-105		

8547 | Group of 3 Rey Nis in clamps for
46 | Endurance 3.2 gm in 2190
45 |

						@500				
8547	508	515	552	529	533	408	417	515	524	532
46	515	520	535	530	533	467	475	533	586	533
45	510	518	543	542	547	458	483	537	542	542

8547	525	521	525	520						
46	527	522	533	529						
45	526	522	532	527						

Endurance

	65	66	117	118	169	170	271	272	[illegible]	323
8547	494	481	462	470	433	477	423	393	Trouble 2-10 NOT put in	467
46	500	487	467	48[illegible]	495	500	500	447		427
45	497	486	463	483	428	478	417	417		492

	374									
8547	453									
46	440									
45	477									

	Original	After 1st run		167th run
9299	104-104-107			112-10
98	102 101-100			109-10
97	104-105-105			113-111

Note - 9297 is burn voltage able.

9299 | Three Rey his 3.2 gm
98 | Smooth press 100 Corrug 150
97 | Treated accordingto # 2280 J.W.A.

9299	542	549	547	547	548	552	552	553	552	548
98	560	556	550	546	547	552	550	550	545	543
97	565	563	562	551	553	560	557	558	555	553

9299	547
98	543
97	555

Endurance

	62	63	114	115	166	167	268	269		370
9299	547	544	525	533	530	540	497	485	Trede 21% 40% put in	530
98	538	533	517	520	527	527	467	472		495
97	549	545	-632	533	530	527	533	333		523

	371
9299	513
98	466
97	533